



FULL LINE CATALOG



INDUSTRIAL PROCESS AND
COMMERCIAL VENTILATION SYSTEMS

TWIN CITY FAN & BLOWER



WHO WE ARE



Brookings, SD
Manufacturing Facility

Twin City Fan & Blower is an industry-leading designer and manufacturer of high-quality custom, semi-custom and standard fans ranging from heavy-duty industrial process fans to a comprehensive line of commercial supply and exhaust fans for the HVAC plan-and-spec market. We have completed thousands of successful installations worldwide and have a proven track record for tackling the most technically complex and unique applications.



Twin City Fan Singapore

With the engineering and manufacturing capabilities to accommodate virtually every conceivable application, Twin City Fan & Blower has the knowledge and expertise to meet any requirement. Our commitment to quality and dedication to customers has been our philosophy since the company started in 1974. As a result, Twin City Fan & Blower continues to grow and provide fans throughout the world — with ten facilities in the United States and expanded manufacturing and service operations in Brazil, Singapore, India, China and Europe.



Twin City Fan Europe
Czech Republic Facility

FAN SELECTION SOFTWARE

Twin City Fan & Blower's Fan Selection Software is designed to raise the bar for fan system configurations. The software offers a dynamic interface that supports both standard and highly-engineered fans. Whether in the commercial or industrial market, Fan Selector is robust enough to handle the application. The software features an easy-to-use interface, multiple selection methods, performance curves, instant drawings and more. Our highly-intuitive software quickly allows the user to navigate through selection, configuration and quotation.

























Fan Selection Software





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▶ TCF.COM RESOURCES

Our website offers a wealth of knowledge, including product catalogs, installation manuals and a wide variety of fan-related engineering information for more than 200 product lines. Learn more at tcf.com.



Product Catalogs



Case Studies



I&M Manuals



Revit Files



Product Specifications



Fan Calculator



Fan Engineering Topics



Video Library



Installation Photo Gallery

INDUSTRIES SERVED



PRODUCTS FOR EVERY MARKET



Foundries



Commercial Buildings



Nuclear Facilities



Hospitals & Clean Rooms

We pride ourselves on the fact that we can support an extremely diverse range of industries on a global level by delivering products that meet our customer's exact requirements. Not only are we known as a one-stop-shop for all industrial and commercial air moving applications, but Twin City Fan & Blower has earned a reputation for having the quickest turnaround and delivery times in the entire fan industry. Below is a condensed list of the industries and markets we support with a full line of products.

Industrial: Automotive, Textile, Nuclear Power, Pulp and Paper, Food Processing, Water Treatment, Petrochemical and Oil, Agriculture, Material Handling, Coal Processing, Foundries, Tunnel Ventilation, Dust Collection, Glass, Waste Management, Chemical, Recycling, Marine, Pharmaceutical, Cement and Lime, Transportation, Ethanol, Air Pollution Control, Energy Recovery, Mining and General Manufacturing

Commercial: Commercial Buildings, Laboratory & Fume Hood Exhaust, Schools, Hospitals, Hotels, Restaurants, Institutional Facilities, Retail Shopping Centers, Sports Arenas and Stadiums, Airports, Data Centers, Emergency Smoke Control, Warehouses and Distribution Centers and HVAC OEMs



CUSTOMIZED SOLUTIONS

Our unique mass-customized approach to manufacturing ensures that you are not only getting the fan elements your project demands — you're getting a complete package of customized solutions. "Mass-customized" means you get cost efficiencies from an incredibly broad range of standard products, plus project-specific flexibility that allows us to build on and customize our exceptional offerings. Check out our Case Studies library at www.tcf.com/resources/case-studies to read about some of the customized solutions we have developed for our customers.

We strive for the highest quality at every step of the manufacturing process — fabrication, welding, machining, painting, assembly, testing and crating. We offer a wide choice of construction materials and accessories for specialty applications including fiberglass, stainless steel, aluminum, hot-dip galvanized steel, abrasion and spark resistant alloys, along with numerous protective coatings.

5S METHODOLOGY

The use of 5S methodology in our plants helps us maintain manufacturing excellence. In simple terms, the 5S methodology helps a workplace remove items that are no longer needed (SORT), designate a place for everything and put everything in its place (STRAIGHTEN), clean the area in order to more easily identify problems (SHINE), implement color coding and labels to stay consistent with other areas (STANDARDIZE) and develop behaviors that keep the workplace organized over the long term (SUSTAIN). Our 5S program is being used in addition to other lean manufacturing initiatives.



Robotic Welding



Powder Coating Paint System



Spinning Operations



Case Studies Library

IN-HOUSE TESTING SERVICES



STATE-OF-THE-ART TESTING LABORATORY

With the most sophisticated research and development testing laboratories in the industry, only Twin City Fan & Blower has the collective experience and knowledge needed to tackle the most technically complex testing requirements for the most demanding environments.

The scope of Twin City Fan & Blower's testing capabilities is very broad and covers a wide spectrum of in-house and onsite testing services. With this level of technology, we continue to provide our customers with proven solutions to their particular air movement needs while ensuring that they receive the highest quality product for their exact requirements and structural needs. This includes the evaluation of existing systems to optimize performance and reduce power consumption.



Twin City Fan's AMCA Accredited Reverberant Sound Room



Overspeed Test Setup



AMCA 210 Performance Testing



UL 705 Safety Testing for Fans

- ✓ AMCA 204 Balance and Vibration Testing
- ✓ AMCA 210 Performance Testing
- ✓ AMCA 250 Jet Fan Thrust Testing
- ✓ AMCA 260 Induced Flow Testing
- ✓ AMCA 300 Sound Testing
- ✓ UL 705 Safety Testing
- ✓ High Temperature/Survivability Testing
- ✓ Mechanical Run Testing
- ✓ Narrow Band Sound and Vibration Testing
- ✓ Impact (Bump) and Overspeed Testing
- ✓ Strain Gauge Testing and Analysis
- ✓ Modal Analysis Testing
- ✓ Vibration Analysis and FFT Spectrum Analysis
- ✓ Scaled Model Testing
- ✓ Custom/OEM Product Designs



START-UP SERVICES

Having the peace of mind that your fan is installed and operating properly prior to start-up is crucial. Twin City Fan & Blower offers a wide range of start-up services and precision checks, including inlet and impeller operational clearances, torque verification, shaft alignment, balance and vibration testing. As part of our standard start-up services, Twin City Fan & Blower field personnel will conduct a variety of inspection checks to ensure the fan is ready for start-up — all the way from the foundation bolts to the lubrication of the fan.

- ☑ Fan Assembly Inspection
- ☑ Vibration Checks
- ☑ Coupling and Sheave Laser Alignment
- ☑ Installation Assistance
- ☑ Commissioning



Coupling & Sheave Alignment



Inspection Checks

FIELD SERVICES

Keeping existing fans operational is crucial to any business. At Twin City Fan & Blower, our on-site field service personnel can provide many types of service, including basic inspections, maintenance, troubleshooting, repairs and in-depth analysis. We'll keep your unit performing as it should to prevent costly down time.

- ☑ Installation and Commissioning
- ☑ Vibration/Spectrum Analysis
- ☑ Motion Amplification
- ☑ Non-Destructive Evaluation (NDE)
- ☑ Balance & Alignment
- ☑ Preventive Maintenance
- ☑ Mechanical Inspections/Repair
- ☑ Troubleshooting/Technical Support



Installation & Commissioning

CENTRIFUGAL FANS



OVERVIEW



Model BC-SW
Supply & Exhaust

CENTRIFUGAL FANS

Centrifugal fans are designed for general HVAC and industrial applications where large volumes of clean air are required at low to moderate pressures. With backward inclined, backward curved, backward inclined airfoil and forward curved impeller types, centrifugal fans offer the flexibility to match the performance and application at the highest efficiency. Most models are available in single-width or double-width configurations, which allow for even higher volumes of air.



Model BCS
Regenerative Thermal Oxidizer

IMPELLER TYPES

Single Thickness Backward Inclined, Backward Curved, Forward Curved, Airfoil



Model BCS
Dust Collection

TYPICAL INDUSTRIES

General HVAC (exhaust, filtration, return and supply, air of commercial buildings), Automotive, Fertilizer, Metal & Mineral Processing, Pulp & Paper, Petrochemical, Pharmaceutical, Power, Water & Wastewater Treatment



Models BCS and BAE
Composting

COMMON ACCESSORIES

Access Door, Drain, Flanged Inlet/Outlet, Companion Flanges, Inlet/Outlet Screens, Shaft Guard, Bearing Guard, Belt Guard, Shaft Seal, Lube Lines, Piezometer Ring, Split Housing, Insulation Pins, Steel Wall or Aluminum Clad Insulated Housing, Inlet Box, Inlet & Outlet Dampers, External or Nested Inlet Vanes

OPTIONAL CONSTRUCTION

High Temperature, Swingout, Split Housings, Special Materials, Spark Resistant Construction (Type A, B and C), Nominally Leak-Tight Construction, ATEX

CERTIFICATIONS

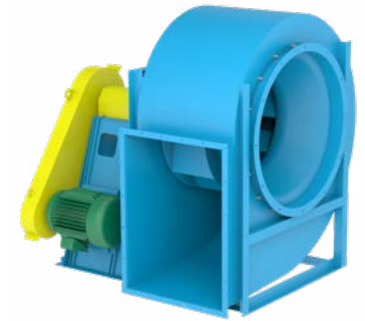
AMCA Sound/Air and FEI, UL 705 Listed for Electrical



BAE-SW

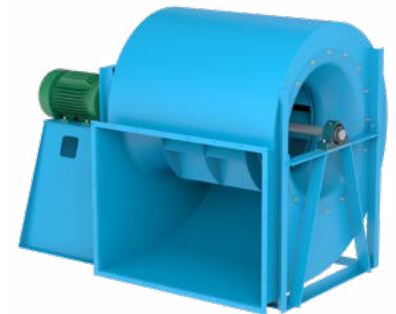
AIRFOIL IMPELLER, SWSI

- > 12.25 to 98.25 inches (315 mm to 2,500 mm) impeller diameters
- > Airflow to 233,100 CFM (396,000 m³/hour)
- > Static pressure to 20 inches w.g. (4,970 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listing available
- > **Typical Applications:** Aeration, Forced Draft, Exhaust Applications, Air Handling Units, Process Cooling, Clean Rooms, Explosion-Proof Processes, General HVAC, Green/LEED, Filtration Systems


 CATALOG 370
BAE-DW

AIRFOIL IMPELLER, DWDI

- > 12.25 to 98.25 inches (315 mm to 2,500 mm) impeller diameters
- > Airflow to 419,500 CFM (712,700 m³/hour)
- > Static pressure to 14 inches w.g. (3,480 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listing available
- > **Typical Applications:** Aeration, Air Handling Units, Exhaust Applications, Explosion-Proof Processes, Clean Rooms, General HVAC, Green/LEED


 CATALOG 370
BAF-SW

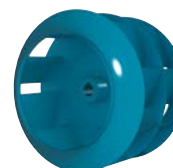
AIRFOIL IMPELLER, SWSI

- > 12.25 to 98.25 inches (315 mm to 2,500 mm) impeller diameters
- > Airflow to 277,500 CFM (471,500 m³/hour)
- > Static pressure to 20 inches w.g. (4,970 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listing available
- > **Typical Applications:** Air Handling Units, Exhaust Applications, Explosion-Proof Processes, General HVAC, Green/LEED


 FAN SELECTOR
BAF-DW

AIRFOIL IMPELLER, DWDI

- > 12.25 to 98.25 inches (315 mm to 2,500 mm) impeller diameters
- > Airflow to 344,300 CFM (585,000 m³/hour)
- > Static pressure to 14 inches w.g. (3,480 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listing available
- > **Typical Applications:** Air Handling Units, Exhaust Applications, Explosion-Proof Processes, General HVAC, Green/LEED


 FAN SELECTOR

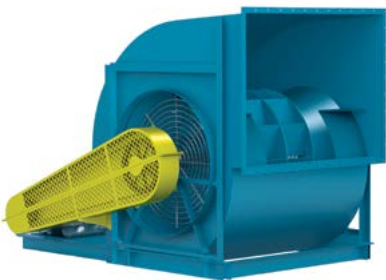


CATALOG 300

BC-SW

FLAT-BLADED BACKWARD INCLINED IMPELLER, SWSI

- > 12.25 to 98.25 inches (315 mm to 2,500 mm) impeller diameters
- > Airflow to 277,500 CFM (471,500 m³/hour)
- > Static pressure to 20 inches w.g. (4,970 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listing available
- > **Typical Applications:** Air Pollution Control, High Temperature, Chemical/Corrosive Environments, Exhaust, Water Treatment, Filtration/Dust Collection, Explosion-Proof Processes, General HVAC, Green/LEED, General Manufacturing, Drying Applications



CATALOG 300

BC-DW

FLAT-BLADED BACKWARD INCLINED IMPELLER, DWDI

- > 12.25 to 89 inches (315 mm to 2,265 mm) impeller diameters
- > Airflow to 344,300 CFM (585,000 m³/hour)
- > Static pressure to 14 inches w.g. (3,480 Pa)
- > AMCA licensed for Air and Fan Energy Index
- > UL 705 listing available
- > **Typical Applications:** Exhaust Applications, Dust Collection, Explosion-Proof Processes, General HVAC, Green/LEED



CATALOG 400

BCS

BACKWARD CURVED IMPELLER, HIGH PRESSURE/HIGH VOLUME

- > 16.5 to 89 inches (420 mm to 2,265 mm) impeller diameters
- > Airflow to 280,000 CFM (475,700 m³/hour)
- > Static pressure to 40 inches w.g. (9,950 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** Air Pollution Control, High Temperature, Chemical/Corrosive Environments, Exhaust, Water Treatment, Filtration/Dust Collection, Explosion-Proof Processes, General HVAC, Green/LEED, General Manufacturing, Drying Applications



CATALOG 410

BCSF

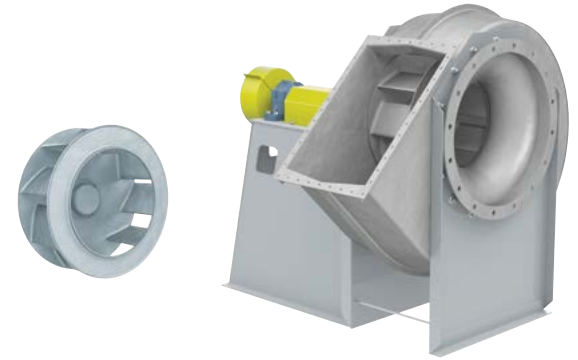
BACKWARD CURVED IMPELLER, HIGH PRESSURE COMPOSITE FAN

- > 16.5 to 60 inches (420 mm to 1,525 mm) impeller diameters
- > Airflow to 151,000 CFM (256,500 m³/hour)
- > Static pressure to 34 inches w.g. (8,450 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** Chemical/Corrosive Environments, Marine, Water Treatment, Exhaust Applications, Process Air, Explosion-Proof Processes, Air Pollution Control, High Moisture Environments, General HVAC

BAFF

BACKWARD INCLINED AIRFOIL IMPELLER, COMPOSITE FAN

- > 12 to 25 inches (305 mm to 635 mm) impeller diameters
- > Airflow to 17,000 CFM (28,800 m³/hour)
- > Static pressure to 13.5 inches w.g. (3,360 Pa)
- > **Typical Applications:** Chemical/Corrosive Environments, Marine, Water Treatment, Exhaust Applications, Process Air, Explosion-Proof Processes, Air Pollution Control, High Moisture Environments, General HVAC

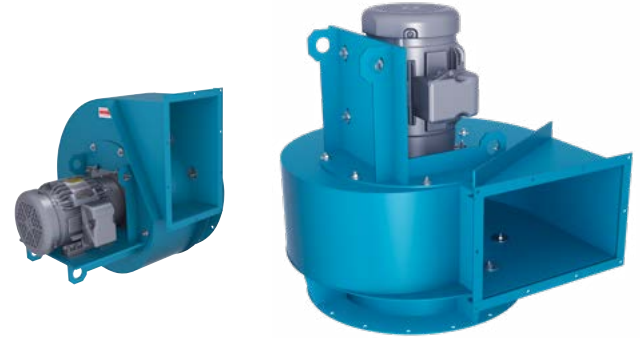


CATALOG 1900

TCBI

FLAT-BLADED BACKWARD INCLINED CENTRIFUGAL FAN, SWSI

- > 14.19 to 22.56 inches (360 mm to 575 mm)
- > 3 HP to 30 HP
- > Airflow to 14,400 CFM (24,470 m³/hour)
- > Static pressures to 18 inches w.g. (4,480 Pa)
- > **Typical Application:** Dust Collection



CATALOG 330

NFC-SW, NFC-DW, FC-DW

FORWARD CURVED CENTRIFUGAL IMPELLER, SWSI & DWDI

- > 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
- > Airflow to 96,500 CFM (164,000 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > **Typical Applications:** Air Handling Units, Exhaust Applications, Energy Recovery, Explosion-Proof Processes, General HVAC, High Temperature, Green/LEED

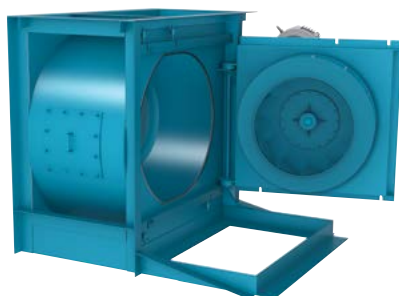


FAN SELECTOR

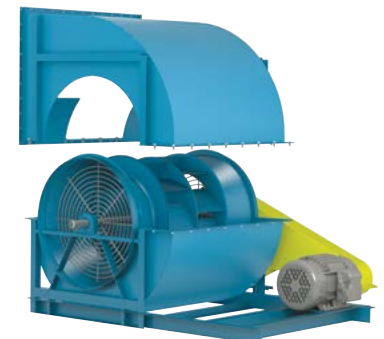
EASY ACCESS & SPLIT HOUSINGS

AVAILABLE ON THE FOLLOWING MODELS

- > BC-SW & BC-DW
- > BAE-SW & BAE-DW
- > BAF-SW & BAF-DW
- > BCS
- > NFC-SW & NFC-DW



Easy Access
Swingout Construction



Split Housings
(Pie-Shaped Housings Also Available)

UTILITY SETS



OVERVIEW



Model BCV
Process Exhaust



Model BCV
Fume Exhaust



Model BAV
Clean Room Exhaust



Model BCV
Building Exhaust

UTILITY SETS

Utility sets are an excellent choice for general exhaust and supply requirements of commercial and light industrial applications. They are suitable for indoor usage and outdoor usage, with the addition of a weather cover to enclose the motor and drives. Fan housings are available in lock-seam galvanized steel, welded heavy-gauge steel, aluminum or stainless steel.

IMPELLER TYPES

Flat-Bladed Backward Inclined, Airfoil, Forward Curved

TYPICAL INDUSTRIES

Aerospace, Asphalt, Agriculture, Air Pollution Control, Automotive, Boilers, Brick, Car Wash, Cement, Chemical, Clean Rooms, Coal, Commercial Plan & Spec, Composting, Ethanol, Food & Beverage, Foundry, General Manufacturing, Glass, Green/LEED, HVAC, Industrial Processes, Institutional & Hospitality, Marine, Metal & Minerals, Microchip, Mining, Nuclear, OEM, Petrochemical, Pharmaceutical, Power Generation, Pulp & Paper, Recycling, Textile, Transportation, Water Treatment, Wind Tunnels

COMMON ACCESSORIES

Access Door, Drain, Flanged Inlet/Outlet, Companion Flanges, Inlet/Outlet Screens, Belt Guard, Weather Cover, Shaft Seal, Shaft Cooler, Lube Lines, Piezometer Ring, Inlet Box, Two Groove Drive Minimum, Inlet & Outlet Dampers, External or Nested Inlet Vanes, Vibration Isolators, Disconnect Switches, Special Coatings

OPTIONAL CONSTRUCTION

High Temperature, Special Materials, Spark Resistant Construction, Smoke & Heat

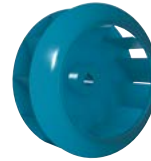
CERTIFICATIONS

AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL 705 Supplement SC (formerly UL 762) Listed for Grease-Laden Air, UL Listed for Smoke Control Systems

BCV

FLAT-BLADED BACKWARD INCLINED UTILITY SETS, BELT DRIVEN

- > 10.5 to 60 inches (270 mm to 1,525 mm) impeller diameters
- > Airflow to 78,660 CFM (133,600 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** Data Center Exhaust, General HVAC, Elevator Shaft Exhaust/Pressurization, Restroom Exhaust, Stairwell Pressurization, Industrial Ovens, Vehicle Exhaust Generator Room Ventilation, Swimming Pool Exhaust

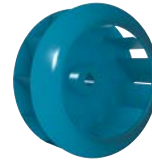


CATALOG 600

BCVR

FLAT-BLADED BACKWARD INCLINED UTILITY SETS, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

- > 10.5 to 36.5 inches (270 mm to 930 mm) impeller diameters
- > Airflow to 29,100 CFM (49,400 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air
- > **Typical Applications:** Kitchen Exhaust, Dishwasher Exhaust

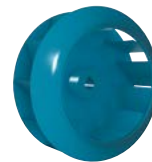


CATALOG 600

BCVSH

FLAT-BLADED BACKWARD INCLINED UTILITY SETS, UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12.25 to 60 inches (315 mm to 1,525 mm) impeller diameters
- > Airflow to 78,660 CFM (133,600 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems
- > **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization

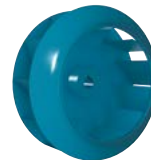


CATALOG 600

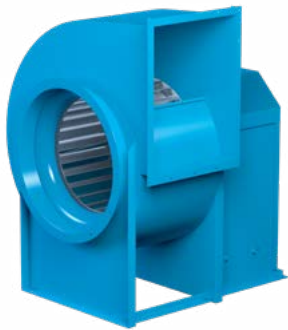
DCV

FLAT-BLADED BACKWARD INCLINED UTILITY SETS, DIRECT DRIVE

- > 10.5 to 20 inches (270 mm to 510 mm) impeller diameters
- > Airflow to 8,200 CFM (13,900 m³/hour)
- > Static pressure to 2.5 inches w.g. (600 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** Data Center Exhaust, General HVAC, Elevator Shaft Exhaust/Pressurization, Restroom Exhaust, Stairwell Pressurization, Industrial Ovens, Vehicle Exhaust Generator Room Ventilation, Swimming Pool Exhaust



CATALOG 600



FCV

FORWARD CURVED UTILITY SETS

- > 7.5 to 36.5 inches (195 mm to 930 mm) impeller diameters
- > Airflow to 29,100 CFM (49,400 m³/hour)
- > Static pressure to 5 inches w.g. (1,240 Pa)
- > AMCA licensed for Air and Fan Energy Index
- > **Typical Applications:** Data Center Exhaust, Elevator Shaft Exhaust/Pressurization, General HVAC, Restroom Exhaust, Generator Room Ventilation, Stairwell Pressurization, Swimming Pool Exhaust

CATALOG 600

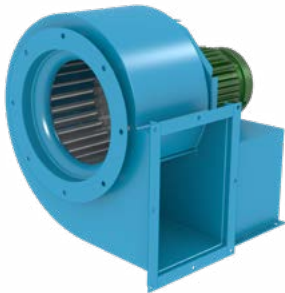


BAV

AIRFOIL UTILITY SET

- > 12.25 to 36.5 inches (315 mm to 930 mm) impeller diameters
- > Airflow to 32,100 CFM (54,500 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** Data Center Exhaust, General HVAC, Elevator Shaft Exhaust/Pressurization, Swimming Pool Exhaust, Restroom Exhaust, Generator Room Ventilation, Stairwell Pressurization

CATALOG 600



DDF

FORWARD CURVED JUNIOR UTILITY SETS, DIRECT DRIVE

- > 6 to 10.5 inches (155 mm to 270 mm) impeller diameters
- > Airflow to 2,100 CFM (3,600 m³/hour)
- > Static pressure to 1.75 inches w.g. (440 Pa)
- > **Typical Applications:** Data Center Exhaust, General HVAC, Elevator Shaft Exhaust/Pressurization, Restroom Exhaust, Generator Room Ventilation, Stairwell Pressurization, Swimming Pool Exhaust

CATALOG 600

CEILING & CABINET VENTILATORS



OVERVIEW

Ceiling and cabinet ventilators are designed for commercial applications requiring quiet, continuous and reliable operation, including bathrooms, generator rooms, data centers and general HVAC exhaust. These ventilators offer a variety of mounting configurations.

DBS

FORWARD CURVED INLINE DUCT BLOWERS

- > 8 to 20 inches (205 mm to 510 mm) impeller diameters
- > Airflow to 18,500 CFM (31,400 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed



CATALOG 4220

DBT

FORWARD CURVED INLINE TWIN DUCT BLOWERS

- > 8 to 20 inches (205 mm to 510 mm) impeller diameters
- > Airflow to 31,500 CFM (53,500 m³/hour)
- > Static pressure to 3 inches w.g. (750 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed



CATALOG 4220

T

CEILING VENTILATOR

- > 14 fan sizes available in horizontal and vertical discharge
- > Airflow to 722 CFM (1,200 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 507 listed



CATALOG 4600

TL

INLINE/CABINET VENTILATOR

- > 8 fan sizes available in straight through and right angle discharge
- > Airflow to 724 CFM (1,200 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 507 listed



CATALOG 4600

INLINE CENTRIFUGAL & MIXED FLOW FANS



OVERVIEW



Model QCLB
Mechanical Room Exhaust

INLINE CENTRIFUGAL & MIXED FLOW FANS

Inline centrifugal and mixed flow fans are designed for general HVAC and industrial applications where large volumes of clean air are required at low to moderate pressures. Inline centrifugal and mixed flow fans provide the performance of a centrifugal fan with the space saving advantages of an axial-type fan. With a variety of designs to choose from, these fans offer the flexibility to meet the performance and application requirements at very high efficiencies.



Model DSI
Data Center Exhaust

IMPELLER TYPES

Backward Inclined, Backward Inclined Airfoil, Single Surface Mixed Flow and True Airfoil (double surface – hollow) Mixed Flow

TYPICAL INDUSTRIES

General HVAC (exhaust, filtration, return and supply, air of commercial buildings), Air Pollution Control, Automotive, Chemical, Fertilizer, Food & Beverage, Laboratory Exhaust, Metal & Mineral Processing and Water & Wastewater Treatment

COMMON ACCESSORIES

Access Doors, Belt Guards, Belt Tube, Companion Flanges, Disconnect Switches, Inlet/Outlet Screens, Inlet Vanes, Piezometer Ring Airflow Measurement System, Pressure Transducers, Special Coatings, Vibration Isolation and Weather Covers

OPTIONAL CONSTRUCTION

Spark Resistant Construction (Type A, B and C), Easy Access Construction

CERTIFICATIONS

AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL 705 Supplement SC (formerly UL 762) Listed for Grease-Laden Air, UL Listed for Smoke Control Systems



Model QSL
Spray Paint Booth Exhaust



DSI

SQUARE INLINE CENTRIFUGAL FANS, DIRECT DRIVE

- > 8 to 16.5 inches (205 mm to 420 mm) impeller diameters
- > Airflow to 5,800 CFM (9,900 m³/hour)
- > Static pressure to 2 inches w.g. (500 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Odor Control, Restroom Exhaust



CATALOG 4205

BSI

SQUARE INLINE CENTRIFUGAL FANS, BELT DRIVEN

- > 8 to 40.25 inches (205 mm to 1,025 mm) impeller diameters
- > Airflow to 27,400 CFM (46,600 m³/hour)
- > Static pressure to 3.5 inches w.g. (870 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Odor Control, Restroom Exhaust



CATALOG 4205

TSL

TUBULAR INLINE CENTRIFUGAL FANS

- > 12.25 to 89 inches (315 mm to 2,265 mm) impeller diameters
- > Airflow to 221,700 CFM (376,700 m³/hour)
- > Static pressure to 9 inches w.g. (2,240 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Odor Control, Wastewater Treatment



CATALOG 1001

QCLB

LOW PRESSURE MIXED FLOW FANS

- > 12.25 to 73 inches (315 mm to 1,855 mm) impeller diameters
- > Airflow to 105,000 CFM (178,400 m³/hour)
- > Static pressure to 4.5 inches w.g. (1,120 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation



CATALOG 1070



CATALOG 1070



QCLBR

LOW PRESSURE RESTAURANT MIXED FLOW FANS,
UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

- > 12.25 to 73 inches (315 mm to 1,855 mm) impeller diameters
- > Airflow to 105,000 CFM (178,400 m³/hour)
- > Static pressure to 4.5 inches w.g. (1,120 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air
- > **Typical Applications:** Kitchen Exhaust, Dishwasher Exhaust



CATALOG 1070



QCLBSH

LOW PRESSURE SMOKE & HEAT MIXED FLOW FANS,
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12.25 to 73 inches (315 mm to 1,855 mm) impeller diameters
- > Airflow to 105,000 CFM (178,400 m³/hour)
- > Static pressure to 4.5 inches w.g. (1,120 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems
- > **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization



CATALOG 1060



QSL

QUIET MIXED FLOW FANS

- > 18.25 to 89 inches (465 mm to 2,260 mm) impeller diameters
- > Airflow to 160,000 CFM (271,800 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Air Handling Units, Data Center Exhaust, General HVAC, Generator Room Ventilation, Paint Booth Exhaust



CATALOG 1060



QSLR

QUIET MIXED FLOW RESTAURANT FANS,
UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

- > 18.25 to 89 inches (465 mm to 2,260 mm) impeller diameters
- > Airflow to 160,000 CFM (271,800 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air
- > **Typical Application:** Kitchen Exhaust

QSLSH

QUIET MIXED FLOW SMOKE & HEAT REMOVAL FANS,
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 18.25 to 89 inches (465 mm to 2,260 mm) impeller diameters
- > Airflow to 160,000 CFM (271,800 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems
- > **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization

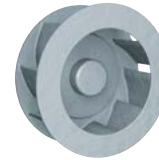


CATALOG 1060

ILCF

FIBERGLASS INLINE CENTRIFUGAL FAN

- > 12.4 to 25 inches (315 mm to 635 mm) impeller diameters
- > Airflow to 15,200 CFM (25,800 m³/hour)
- > Static pressure to 7 inches w.g. (1,740 Pa)
- > **Typical Applications:** Chemical/Corrosive Environments, Exhaust Applications, Water Treatment, Air Pollution Control, Process Air, High Moisture Environments



CATALOG 1915



School Exhaust Application

PLENUM FANS



OVERVIEW



Model EPFN
Air Handling Unit



Model MPQN
Air Handling Unit



Model EPF
Air Handling Unit



Model MPQN
Air Handling Unit

PLENUM FANS

Plenum fans are designed for general HVAC applications where large volumes of clean air are required at low to moderate pressures. Backward inclined airfoil impellers provide high efficiency, performance and sound characteristics needed for the most stringent HVAC applications. With housed or open designs, as well as belt or direct drive options, plenum fans provide the flexibility to match the performance and application at the highest efficiency.

APPLICATIONS

Air-Conditioning/Heating Units, Air-Make-Up Units, Clean-Room Filtration Systems, Supply Air Systems

IMPELLER TYPES

Backward Inclined Airfoil (9-Blades or 12-Blades)

TYPICAL INDUSTRIES

General HVAC (exhaust, filtration, return and supply, air of commercial buildings and air handling units)

COMMON ACCESSORIES

Inlet/Outlet Screen, Piezometer Ring Airflow Measurement System, Pressure Transducers, Protective Enclosure, Special Coatings, Vibration Isolation, Aero Acoustic Diffuser™

OPTIONAL CONSTRUCTION

Special Impeller Width

CERTIFICATIONS

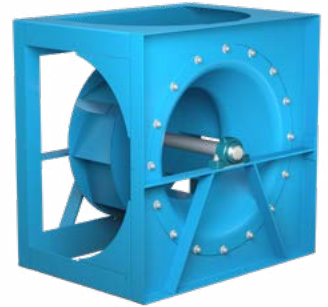
AMCA Sound/Air and FEI



EPF

PLENUM FAN, AIRFOIL IMPELLER, 9-BLADES, ARRANGEMENT 3

- > 12.25 to 89 inches (315 mm to 2,265 mm) impeller diameters
- > Airflow to 280,000 CFM (475,700 m³/hour)
- > Static pressure to 10 inches w.g. (2,490 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** Air Handling Units, General HVAC, Make-Up Air Units, Elevator Shaft Exhaust/Pressurization, Hospital Exhaust, Stairwell Pressurization, School Exhaust, Air Filtration, Generator Room Ventilation, Kitchen Exhaust, Dishwasher Exhaust

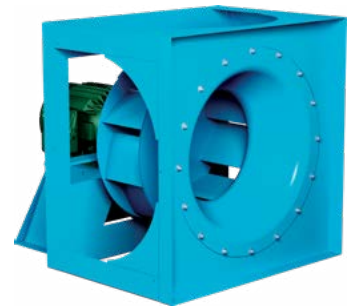


 CATALOG 470

EPFN

PLENUM FAN, AIRFOIL IMPELLER, 9-BLADES, ARRANGEMENT 1 & 4

- > 12.25 to 89 inches (315 mm to 2,265 mm) impeller diameters
- > Airflow to 280,000 CFM (475,700 m³/hour)
- > Static pressure to 10 inches w.g. (2,490 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** Air Handling Units, General HVAC, Make-Up Air Units, Elevator Shaft Exhaust/Pressurization, Hospital Exhaust, Stairwell Pressurization, School Exhaust, Air Filtration, Generator Room Ventilation, Kitchen Exhaust, Dishwasher Exhaust

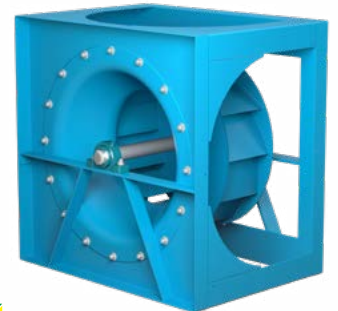


 CATALOG 470

EPQ

PLENUM FAN, AIRFOIL IMPELLER, 12-BLADES, ARRANGEMENT 3

- > 12.25 to 89 inches (315 mm to 2,265 mm) impeller diameters
- > Airflow to 280,000 CFM (475,700 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** Air Handling Units, General HVAC, Make-Up Air Units, Elevator Shaft Exhaust/Pressurization, Hospital Exhaust, Stairwell Pressurization, School Exhaust, Air Filtration, Generator Room Ventilation, Kitchen Exhaust, Dishwasher Exhaust

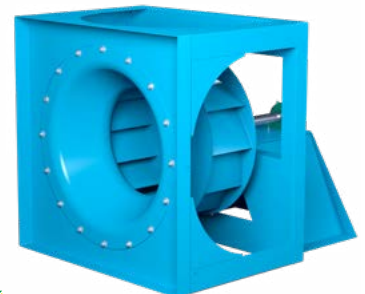


 CATALOG 470

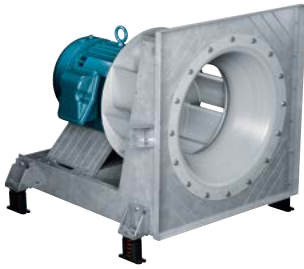
EPQN

PLENUM FAN, AIRFOIL IMPELLER, 12-BLADES, ARRANGEMENT 1 & 4

- > 12.25 to 89 inches (315 mm to 2,265 mm) impeller diameters
- > Airflow to 280,000 CFM (475,700 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** Air Handling Units, General HVAC, Make-Up Air Units, Elevator Shaft Exhaust/Pressurization, Hospital Exhaust, Stairwell Pressurization, School Exhaust, Air Filtration, Generator Room Ventilation, Kitchen Exhaust, Dishwasher Exhaust



 CATALOG 470



EPLFN

PLENUM FAN, COMMERCIAL DUTY, AIRFOIL IMPELLER, 9-BLADES

- > 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
- > Airflow to 68,800 CFM (116,900 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

 CATALOG 455

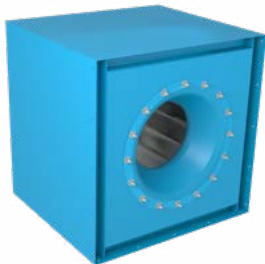


EPLQN

PLENUM FAN, COMMERCIAL DUTY, AIRFOIL IMPELLER, 12-BLADES

- > 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
- > Airflow to 68,800 CFM (116,900 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

 CATALOG 455

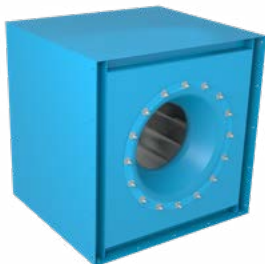


MPQN

MODULAR INSULATED PLENUM FAN, AIRFOIL IMPELLER, 12-BLADES, ARRANGEMENT 4

- > 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
- > Airflow to 76,000 CFM (129,100 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

 CATALOG 490



MPQS

MODULAR PLENUM FAN, AIRFOIL IMPELLER, 12-BLADES, ARRANGEMENT 4

- > 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
- > Airflow to 76,000 CFM (129,100 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

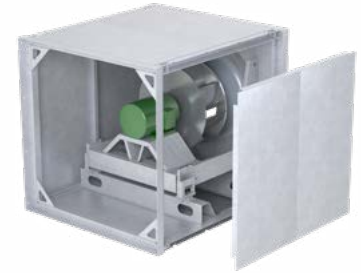
 CATALOG 490



MPLFS

MODULAR PLENUM FAN, AIRFOIL IMPELLER
9-BLADES, ARRANGEMENT 4

- > 12.25 to 36.5 inches (315 mm to 930 mm) impeller diameters
- > Airflow to 44,000 CFM (74,800 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

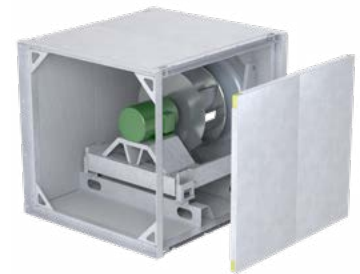


CATALOG 495

MPLFN

MODULAR INSULATED PLENUM FAN, AIRFOIL IMPELLER
9-BLADES, ARRANGEMENT 4

- > 12.25 to 36.5 inches (315 mm to 930 mm) impeller diameters
- > Airflow to 44,000 CFM (74,800 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

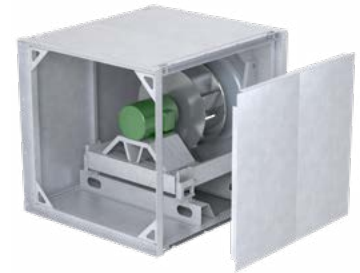


CATALOG 495

MPLQS

MODULAR PLENUM FAN, AIRFOIL IMPELLER
12-BLADES, ARRANGEMENT 4

- > 12.25 to 36.5 inches (315 mm to 930 mm) impeller diameters
- > Airflow to 44,000 CFM (74,800 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

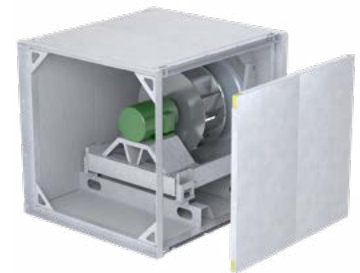


CATALOG 495

MPLQN

MODULAR INSULATED PLENUM FAN, AIRFOIL IMPELLER
12-BLADES, ARRANGEMENT 4

- > 12.25 to 36.5 inches (315 mm to 930 mm) impeller diameters
- > Airflow to 44,000 CFM (74,800 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index



CATALOG 495

PLUG FANS



Model BCPL
Baking Oven



Model BEPL
Baking Oven



Model BFPL
Baking Oven



OVERVIEW

PLUG FANS

Plug fans offer great versatility for complex system configurations. Equipped with a gusseted mounting panel, they are mounted directly to the plenum wall separating the motor and drive components from the process air. Plug fans provide high efficiency recirculation air with the benefit of easy installation and removal.

APPLICATIONS

Air Curtains, Dyers, Freezers, High Temperature, Kilns, Ovens, Process Applications, Product Cooling, Re-Circulation, Air Heaters, Ceiling, Wall and Floor Panel Plenums, Degreasers, Dryers, Dust Collectors, Evaporators, Packaged Air Handlers, Parts Washers, Penthouses, Smoke Houses, Space Heaters, Spray Booths and other High Temperature Applications

IMPELLER TYPES

Flat-Bladed Backward Inclined and Backward Curved

TYPICAL INDUSTRIES

Automotive, Industrial Cooling and Ovens

COMMON ACCESSORIES

Belt Guards, Bearing Guards, Extended Lube Lines, Forklift Lifting Tubes, Integral Inlet Cone, Insulated Plug, Piezometer Ring Airflow Measurement System, Shaft Cooler (Slinger), Variable Inlet Vanes, Housings

OPTIONAL CONSTRUCTION

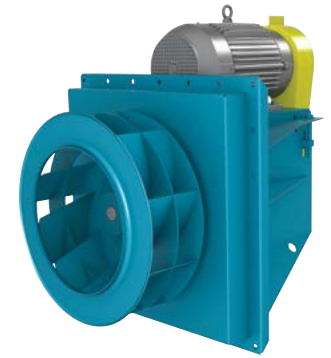
ATEX Construction, High-Temperature Construction to 1000° F, Pedestal Design for Floor Mounting, Spark Resistant Construction (Type A, B and C), Special Materials (Stainless Steel, Normalized Steel), Special Impeller Width & Diameter



BEPL

HIGH EFFICIENCY PLUG FAN, BACKWARD CURVED

- > 12.4 to 49 inches (315 mm to 1,245 mm) impeller diameters
- > Airflow to 76,000 CFM (129,100 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > Airstream temperatures to 1,000°F (538°C)
- > **Typical Applications:** Air Curtains, Dyers, Freezers, High Temperature, Kilns, Ovens, Product Cooling, Re-Circulation, Air Heaters, Ceiling, Degreasers, Dryers, Dust Collectors, Evaporators, Packaged Air Handlers, Parts Washers, Penthouses, Smoke Houses, Space Heaters, Spray Booths



 CATALOG 355

BFPL

HIGH EFFICIENCY PLUG FAN, BACKWARD CURVED

- > 12.4 to 49.21 inches (315 mm to 1,250 mm) impeller diameters
- > Airflow to 76,000 CFM (129,100 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > Airstream temperatures to 1,000°F (538°C)
- > **Typical Applications:** Air Curtains, Dyers, Freezers, High Temperature, Kilns, Ovens, Product Cooling, Re-Circulation, Air Heaters, Ceiling, Degreasers, Dryers, Dust Collectors, Evaporators, Packaged Air Handlers, Parts Washers, Penthouses, Smoke Houses, Space Heaters, Spray Booths



 CATALOG 360

BCPL

PLUG FAN, BC BACKWARD INCLINED IMPELLER
NON-HVAC APPLICATIONS

- > 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
- > Airflow to 57,900 CFM (98,400 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > Airstream temperatures to 1,000°F (538°C)
- > **Typical Applications:** Air Curtains, Dyers, Freezers, High Temperature, Kilns, Ovens, Product Cooling, Re-Circulation, Air Heaters, Ceiling, Degreasers, Dryers, Dust Collectors, Evaporators, Packaged Air Handlers, Parts Washers, Penthouses, Smoke Houses, Space Heaters, Spray Booths



 CATALOG 350

CENTRIFUGAL ROOF & WALL EXHAUSTERS



OVERVIEW



Model BCRW
Office Building Exhaust

CENTRIFUGAL ROOF & WALL EXHAUSTERS

Centrifugal roof and wall exhausters are available in direct and belt driven models, featuring backward inclined, non-overloading centrifugal impellers for maximum efficiency and quiet operation. A variety of configurations are available for the exhaust of relatively clean air and grease-laden air.



Model BCRUSH
Emergency Smoke Exhaust

TYPICAL INDUSTRIES

Agriculture, Air Pollution Control, Automotive, Boilers, Brick, Car Wash, Commercial Plan & Spec, Composting, Ethanol, Food & Beverage, Foundry, General Manufacturing, Glass, Green/LEED, HVAC, Institutional & Hospitality, Metal & Minerals, Microchip, Mining, Nuclear, OEM, Petrochemical, Pharmaceutical, Power Generation, Pulp & Paper, Recycling, Textile, Transportation



Model BCRD
School - General Building Exhaust

COMMON ACCESSORIES

Backdraft Dampers, Roof Curbs, Bird Screens, Insect Screens, Curb Hinges, Retaining Chains, Security Hasps, Metal Nameplates, Stainless Steel Shafts, Automatic Belt Tensioners, AMCA Spark B Construction, Stainless Steel Hardware, Tie Downs, Speed Controllers, Two-Speed Switches, Firestats, Disconnect Switches, Special Coatings

CERTIFICATIONS

AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL 705 Supplement SC (formerly UL 762) Listed for Grease-Laden Air, UL Listed for Smoke Control Systems, Miami-Dade County Hurricane Rating per NOA No. 21-0803.03



Model BCRU
Retail Store - General Building Exhaust



BCRD

CENTRIFUGAL ROOF EXHAUSTER, DOWNBLAST, BELT DRIVEN

- > 8.5 to 50.5 inches (220 mm to 1,285 mm) impeller diameters
- > Airflow to 28,700 CFM (48,800 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, Jet Bridge Exhaust, Restroom Exhaust



CATALOG 4050

VC

CENTRIFUGAL ROOF EXHAUSTER, DOWNBLAST, DIRECT DRIVE

- > 8.375 to 12 inches (215 mm to 305 mm) impeller diameters
- > Airflow to 1,450 CFM (2,500 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** General HVAC, General Rooftop Exhaust, Generator Room Ventilation, Jet Bridge Exhaust, Restroom Exhaust



GRIDSMART
Available With
GridSmart™ EC Motors



CATALOG 5500

VCU

CENTRIFUGAL ROOF/WALL EXHAUSTER, UPBLAST, DIRECT DRIVE

- > 8.52 to 19.7 inches (220 mm to 500 mm) impeller diameters
- > Airflow to 4,350 CFM (7,390 m³/hour)
- > Static pressure to 2.65 inches w.g. (660 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air
- > **Typical Applications:** General HVAC, General Rooftop Exhaust, Generator Room Ventilation, Jet Bridge Exhaust, Restroom Exhaust



GRIDSMART
Available With
GridSmart™ EC Motors



CATALOG 5505

VCUB

CENTRIFUGAL ROOF/WALL EXHAUSTER, UPBLAST, BELT DRIVEN

- > 12.25 to 19.7 inches (315 mm to 500 mm) impeller diameters
- > Airflow to 4,460 CFM (7,590 m³/hour)
- > Static pressure to 3.7 inches w.g. (920 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air
- > **Typical Applications:** General HVAC, General Rooftop Exhaust, Generator Room Ventilation, Jet Bridge Exhaust, Restroom Exhaust



GRIDSMART
Available With
GridSmart™ EC Motors



CATALOG 5505



CATALOG 4105

BCRU

CENTRIFUGAL ROOF EXHAUSTER, UPBLAST, BELT DRIVEN

- > 24.80 to 49.21 inches (630 mm to 1,250 mm) impeller diameters
- > Airflow to 29,100 CFM (49,400 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** General HVAC, General Rooftop Exhaust, Generator Room Ventilation, Jet Bridge Exhaust, Restroom Exhaust

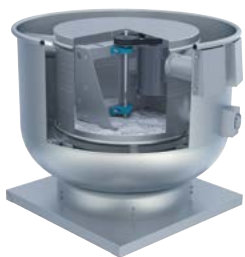


CATALOG 4105

BCRUR

CENTRIFUGAL KITCHEN ROOF EXHAUSTER, UPBLAST, BELT DRIVEN, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

- > 24.80 to 39.37 inches (630 mm to 1,000 mm) impeller diameters
- > Airflow to 20,700 CFM (35,200 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air
- > Typical Applications: Kitchen Exhaust, Dishwasher Exhaust



CATALOG 4105

BCRUSH

CENTRIFUGAL ROOF EXHAUSTER, UPBLAST, BELT DRIVEN, UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12.25 to 49.21 inches (495 mm to 1,250 mm) impeller diameters
- > Airflow to 29,100 CFM (49,400 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems
- > **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization



CATALOG 4105

BCRW

CENTRIFUGAL WALL EXHAUSTER, BELT DRIVEN

- > 19.47 to 31.5 inches (495 mm to 800 mm) impeller diameters
- > Airflow to 15,100 CFM (25,700 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Restroom Exhaust



CATALOG 4105

BCRWR

CENTRIFUGAL WALL KITCHEN EXHAUSTER, BELT DRIVEN, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

- > 19.47 to 31.5 inches (495 mm to 800 mm) impeller diameters
- > Airflow to 15,100 CFM (25,700 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air
- > **Typical Applications:** Kitchen Exhaust, Dishwasher Exhaust

DCLP

LOUVERED CENTRIFUGAL ROOF EXHAUSTERS, DIRECT DRIVE

- > 8 to 12.38 inches (205 mm to 315 mm) impeller diameters
- > Airflow to 2,000 CFM (3,400 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Restroom Exhaust, Generator Room Ventilation, Jet Bridge Exhaust

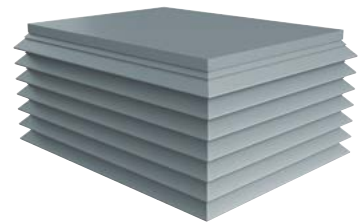


▶ CATALOG 4135

BCLP

LOUVERED CENTRIFUGAL ROOF EXHAUSTERS, BELT DRIVEN

- > 8.5 to 55.12 inches (215 mm to 1,400 mm) impeller diameters
- > Airflow to 36,000 CFM (61,200 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Restroom Exhaust, Generator Room Ventilation, Jet Bridge Exhaust



▶ CATALOG 4135

DCLH

HOODED CENTRIFUGAL ROOF EXHAUSTERS, DIRECT DRIVE

- > 8 to 12.38 inches (205 mm to 315 mm) impeller diameters
- > Airflow to 2,000 CFM (3,400 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Restroom Exhaust, Generator Room Ventilation, Jet Bridge Exhaust



▶ CATALOG 4135

BCLH

HOODED CENTRIFUGAL ROOF EXHAUSTERS, BELT DRIVEN

- > 8.5 to 55.12 inches (215 mm to 1,400 mm) impeller diameters
- > Airflow to 36,000 CFM (61,200 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Restroom Exhaust, Generator Room Ventilation, Jet Bridge Exhaust



▶ CATALOG 4135



CATALOG 4910

CANTED ROOF CURBS

PREFABRICATED ROOF CURBS

- > Constructed of 18-gauge galvanized steel with continuously-welded seams
- > Large 3" built-in 45° cant to accommodate roofing material to top of curb. Cant is beveled at corners for better support of roofing material.
- > Wood nailer (1½") secured to top ledge
- > Lined with 1½" fiberglass fire-resistant, sound-absorbing insulation
- > Damper shelf standard
- > Options: Aluminum (16-gauge) construction, burglar security bars, metal liner (galvanized or aluminum), special heights up to 24", single- or double-pitched curbs for sloping roofs



CATALOG 4910

SELF-FLASHING & STRAIGHT-SIDED ROOF CURBS

PREFABRICATED ROOF CURBS

- > Constructed of 18-gauge galvanized steel with continuously-welded seams
- > Wide base plate (flashing) to ensure watertight seal to roof
- > Top ledge covered with ³⁄₁₆" polystyrene gasket (self-flashing) for weather seal and to reduce metal-to-metal conducted noise
- > Wood nailer (1½") secured to top ledge (straight-sided)
- > Lined with 1½" fiberglass fire-resistant, sound-absorbing insulation
- > Damper shelf standard
- > Straight-sided roof curbs are constructed with the same features as the self-flashing curbs, but are one dimensional to allow for field supplied cants and roofing material to be brought up to the top of the curb
- > Options: Aluminum (16-gauge) construction, burglar security bars, metal liner (galvanized or aluminum), special heights up to 24", single- or double-pitched curbs for sloping roofs



CATALOG 4910

CURB ADAPTERS

PREFABRICATED ROOF CURBS

- > Constructed of heavy-gauge galvanized steel with continuously-welded seams
- > Top ledge covered with ³⁄₁₆" polystyrene gasket to reduce metal-to-metal conducted noise and act as a weather seal

CENTRIFUGAL FILTERED SUPPLY FANS



Filtered supply fans are belt driven centrifugal fans that are designed to provide filtered outside air to buildings such as manufacturing plants, warehouses and auditoriums. Fresh make-up air is supplied to replace the air lost through industrial processes, fume hood exhaust or general building ventilation.

BCRFS

CENTRIFUGAL ROOFTOP FILTERED SUPPLY FAN, BELT DRIVEN

- > 8.86 to 22.05 inches (225 mm to 560 mm) impeller diameters
- > Airflow to 17,000 CFM (28,900 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** General HVAC Supply, Auditorium Supply, Industrial Supply, Kitchen Supply



CATALOG 4310

LPSF

LOUVERED PENTHOUSE SUPPLY FAN, BELT DRIVEN

- > 12.4 to 35.6 inches (315 mm to 905 mm) impeller diameters
- > Airflow to 47,000 CFM (79,900 m³/hour)
- > Static pressure to 5.5 inches w.g. (1,370 Pa)
- > **Typical Applications:** General HVAC Supply, Auditorium Supply, Industrial Supply

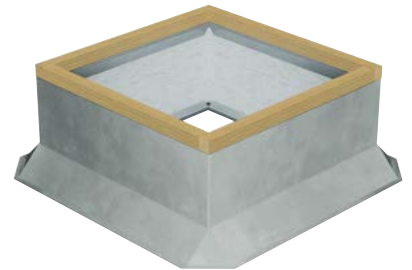


CATALOG 2010

CANTED ROOF CURBS

PREFABRICATED ROOF CURBS

- > Constructed of 18-gauge galvanized steel with continuously-welded seams
- > Large 3" built-in 45° cant to accommodate roofing material to top of curb. Cant is beveled at corners for better support of roofing material.
- > Wood nailer (1½") secured to top ledge
- > Lined with 1½" fiberglass fire-resistant, sound-absorbing insulation
- > Damper shelf standard



SELF-FLASHING ROOF CURBS

PREFABRICATED ROOF CURBS

- > Constructed of 18-gauge galvanized steel with continuously-welded seams
- > Wide base plate (flashing) to ensure watertight seal to roof
- > Top ledge covered with 3/16" polystyrene gasket (self-flashing) for weather seal and to reduce metal-to-metal conducted noise
- > Lined with 1½" fiberglass fire-resistant, sound-absorbing insulation
- > Damper shelf standard



CATALOG 4910

WALL MOUNTED FANS



OVERVIEW



Model WPB
Warehouse Exhaust



Model WPB
Generator Room Exhaust



Model WPD
Warehouse Exhaust



Model TCWPX
General Exhaust

WALL MOUNTED FANS

Wall mounted fans are designed for cost-effective, general ventilation. They are available in direct and belt driven models, with aluminum or steel impellers. Fixed or adjustable pitch models are offered to meet a variety of application requirements.

IMPELLER TYPES

Fixed Pitch Fabricated Steel & Cast Aluminum, Adjustable Pitch Cast Aluminum

TYPICAL INDUSTRIES

Agriculture, Air Pollution Control, Automotive, Boilers, Brick, Car Wash, Commercial Plan & Spec, Composting, Ethanol, Food & Beverage, Foundry, General Manufacturing, Glass, HVAC, Industrial Processes, Institutional & Hospitality, Metal & Minerals, Mining, OEM, Petrochemical, Power Generation, Pulp & Paper, Recycling, Textile and Water Treatment

COMMON ACCESSORIES

Wall Boxes, Wall Collars, OSHA Motor Side Guards, Filter Boxes, Weather Hoods, Backdraft Dampers, Damper Guards, Screens, Extended Lube Lines, Special Coatings, Disconnect Switches and Single Point Wiring

CERTIFICATIONS

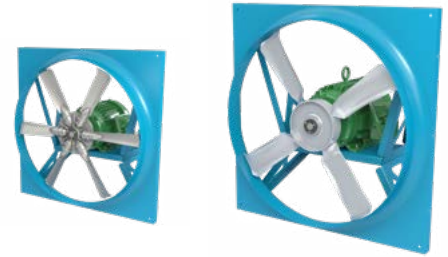
AMCA Sound/Air and FEI, UL 705 Listed for Electrical



TCWPZ / TCWPX

WALL MOUNTED FAN, FIXED & ADJUSTABLE PITCH BLADES

- > 12 to 72 inches (305 mm to 1,830 mm) impeller diameters
- > Airflow to 85,000 CFM (144,400 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Sidewall Exhaust and Supply



 CATALOG AX500

WPD

WALL MOUNTED FAN, MEDIUM-DUTY, DIRECT DRIVE

- > 14 to 48 inches (355 mm to 1,220 mm) impeller diameters
- > Airflow to 35,300 CFM (60,000 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Sidewall Exhaust and Supply



 CATALOG 4820

WPB

WALL MOUNTED FAN, LIGHT- & MEDIUM-DUTY, BELT DRIVEN

- > 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
- > Airflow to 62,830 CFM (106,700 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Sidewall Exhaust and Supply



 CATALOG 4820

TCPE

WALL MOUNTED FAN, LIGHT-DUTY, EXHAUST, DIRECT DRIVE

- > 8 to 24 inches (205 mm to 610 mm) impeller diameters
- > Airflow to 7,615 CFM (12,900 m³/hour)
- > Static pressure to 0.625 inches w.g. (160 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** General HVAC, Generator Room Ventilation, Sidewall Exhaust and Supply



 CATALOG 4800

TCWPF

FIBERGLASS PANEL FAN, DIRECT DRIVE

- > 12 to 48 inches (305 mm to 1,220 mm) impeller diameters
- > Airflow to 41,900 CFM (71,200 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > **Typical Applications:** Corrosive Environments, General HVAC, Marine, Wastewater Treatment, High Moisture Environments, Swimming Pools



 CATALOG 1925

AXIAL FANS



OVERVIEW



Model TCTS
Vapor Dispersion

AXIAL FANS

Tubeaxial fans are designed to handle a wide range of requirements, from general ventilation to process air supply. The mounting flexibility makes it an ideal choice for many industrial and commercial applications. Units are available as direct or belt driven, with steel or aluminum impellers that are fixed or adjustable blade pitch.



Model TCVX - Vertical Roof Mount
Exhaust

Vaneaxial fans are designed for applications where large volumes of air are required at moderate to high pressures. Direct and belt driven models, with fixed and adjustable blade impellers, are available. The tubular design and high impeller efficiency provides maximum performance while using minimal space.

IMPELLER TYPES

Fixed Pitch Fabricated Steel and Cast Aluminum, Adjustable Pitch Cast Aluminum



Model TCVA
Hospital Exhaust

TYPICAL INDUSTRIES

Aerospace, Agriculture, Air Pollution Control, Automotive, Boilers, Brick, Car Wash, Chemical, Clean Rooms, Composting, Ethanol, Food & Beverage, Foundry, General Manufacturing, Glass, Green/LEED, HVAC, Industrial Processes, Institutional & Hospitality, Marine, Metal & Minerals, Microchip, Mining, Nuclear, OEM, Petrochemical, Pharmaceutical, Power Generation, Pulp & Paper, Recycling, Textile, Transportation, Water Treatment, Wind Tunnels

COMMON ACCESSORIES

Access Doors, Inlet/Outlet Screens and Guards, Inlet/Outlet Companion Flanges, Belt Guards, Motor Covers, Weather Covers, Inlet Bells, Inlet/Outlet Cones, Special Coatings and Disconnect Switches



Model TCVA
Paint Booth Exhaust

OPTIONAL CONSTRUCTION

Spark Resistant Construction (Type A, B and C), High Temperature Construction, Reverse Flow Configuration, High Moisture Modification, Swingout and Clamshell Construction

CERTIFICATIONS

AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL Listed for Smoke Control Systems

TD

TUBEAXIAL FAN, DIRECT DRIVE

- > 14 to 48 inches (355 mm to 1,220 mm) impeller diameters
- > Airflow to 42,900 CFM (72,900 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, Parking Garage Ventilation



CATALOG 4830

TB

TUBEAXIAL FAN, BELT DRIVEN

- > 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
- > Airflow to 82,600 CFM (140,300 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Parking Garage Ventilation



CATALOG 4830

TBSH

TUBEAXIAL FAN, BELT DRIVEN

UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 24 to 60 inches (610 mm to 1,525 mm) impeller diameters
- > Airflow to 82,600 CFM (140,300 m³/hour)
- > Static pressure to 1.25 inches w.g. (310 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems
- > **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization



CATALOG 4830

ATAD

AXIPAL TUBEAXIAL FAN, DIRECT DRIVE

- > 13.65 to 48.78 inches (350 mm to 1,240 mm) impeller diameters
- > Airflow to 75,600 CFM (128,400 m³/hour)
- > Static pressure to 4.5 inches w.g. (1,120 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** Air Pollution Control, Data Center Exhaust, General HVAC, General Rooftop Exhaust, Clean Room HEPA Filtration, Odor Control, Wastewater Treatment



CATALOG AX210



CATALOG AX250



TCTS

TUBEAXIAL FAN, STEEL IMPELLER

- > 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
- > Airflow to 80,000 CFM (135,900 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > UL 705 listing available
- > **Typical Applications:** Air Pollution Control, Heat Transfer Equipment Testing, Odor Control, Wastewater Treatment



CATALOG AX250



TCTSSH

TUBEAXIAL FAN, STEEL IMPELLER

UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
- > Airflow to 80,000 CFM (135,900 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > UL listed for Smoke Control Systems
- > **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization



CATALOG AX200



TCTA

TUBEAXIAL FAN, CAST ALUMINUM IMPELLER

- > 12 to 60 inches (305 mm to 1,525 mm) impeller diameters
- > Airflow to 96,000 CFM (163,100 m³/hour)
- > Static pressure to 5 inches w.g. (1,240 Pa)
- > UL 705 listing available
- > **Typical Applications:** Air Pollution Control, General HVAC, Clean Room HEPA Filtration, Odor Control, Parking Garage Ventilation, Wastewater Treatment



CATALOG AX100



TCVA

VANEAXIAL FAN, CAST ALUMINUM IMPELLER

- > 12 to 60 inches (305 mm to 1,525 mm) impeller diameters
- > Airflow to 103,000 CFM (175,000 m³/hour)
- > Static pressure to 7 inches w.g. (1,740 Pa)
- > AMCA licensed for Air and Fan Energy Index
- > UL 705 listing available
- > **Typical Applications:** Air Pollution Control, Odor Control, Clean Room HEPA Filtration, Parking Garage Ventilation, Wastewater Treatment

TCVX

VANEAXIAL FAN, ADJUSTABLE PITCH BLADES

- > 18 to 84 inches (460 mm to 2,135 mm) impeller diameters
- > Airflow to 233,000 CFM (395,900 m³/hour)
- > Static pressure to 10 inches w.g. (2,490 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listing available
- > **Typical Applications:** Air Pollution Control, Odor Control, Clean Room HEPA Filtration, Parking Garage Ventilation, Wastewater Treatment



CATALOG AX300

TCVSSH

VANEAXIAL FAN, STEEL IMPELLER

UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
- > Airflow to 80,000 CFM (135,900 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > UL listed for Smoke Control Systems
- > **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization



CATALOG AX250

TCVS

VANEAXIAL FAN, STEEL IMPELLER

- > 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
- > Airflow to 80,000 CFM (135,900 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > UL 705 listing available
- > **Typical Applications:** Air Pollution Control, Heat Transfer Equipment Testing, Odor Control, Wastewater Treatment



CATALOG AX250

TCBS

PAINT BOOTH EXHAUST TUBEAXIAL FAN, BELT DRIVEN

- > 12 to 42 inches (305 mm to 1,070 mm) impeller diameters
- > Airflow to 36,100 CFM (61,300 m³/hour)
- > Static pressure to 1.25 inches w.g. (310 Pa)
- > **Typical Application:** Spray Booth Exhaust



CATALOG AX220



TAMF

FIBERGLASS TYPE FG7 TUBEAXIAL FAN, BELT DRIVEN

- > 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
- > Airflow to 51,900 CFM (88,200 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **Typical Applications:** Chemical/Corrosive Environments, Exhaust Applications, Water Treatment, Air Pollution Control, Process Air, High Moisture Environments

 CATALOG 1925

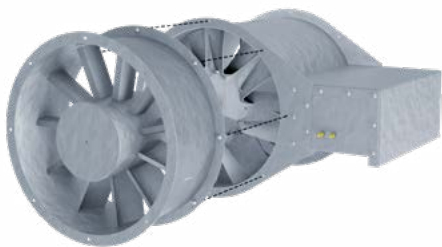


TAHF

FIBERGLASS TYPE TF TUBEAXIAL FAN, BELT DRIVEN

- > 12 to 60 inches (305 mm to 1,525 mm) impeller diameters
- > Airflow to 83,200 CFM (141,400 m³/hour)
- > Static pressure to 2.5 inches w.g. (620 Pa)
- > **Typical Applications:** Chemical/Corrosive Environments, Exhaust Applications, Water Treatment, Air Pollution Control, Process Air, High Moisture Environments

 CATALOG 1925



VAHF

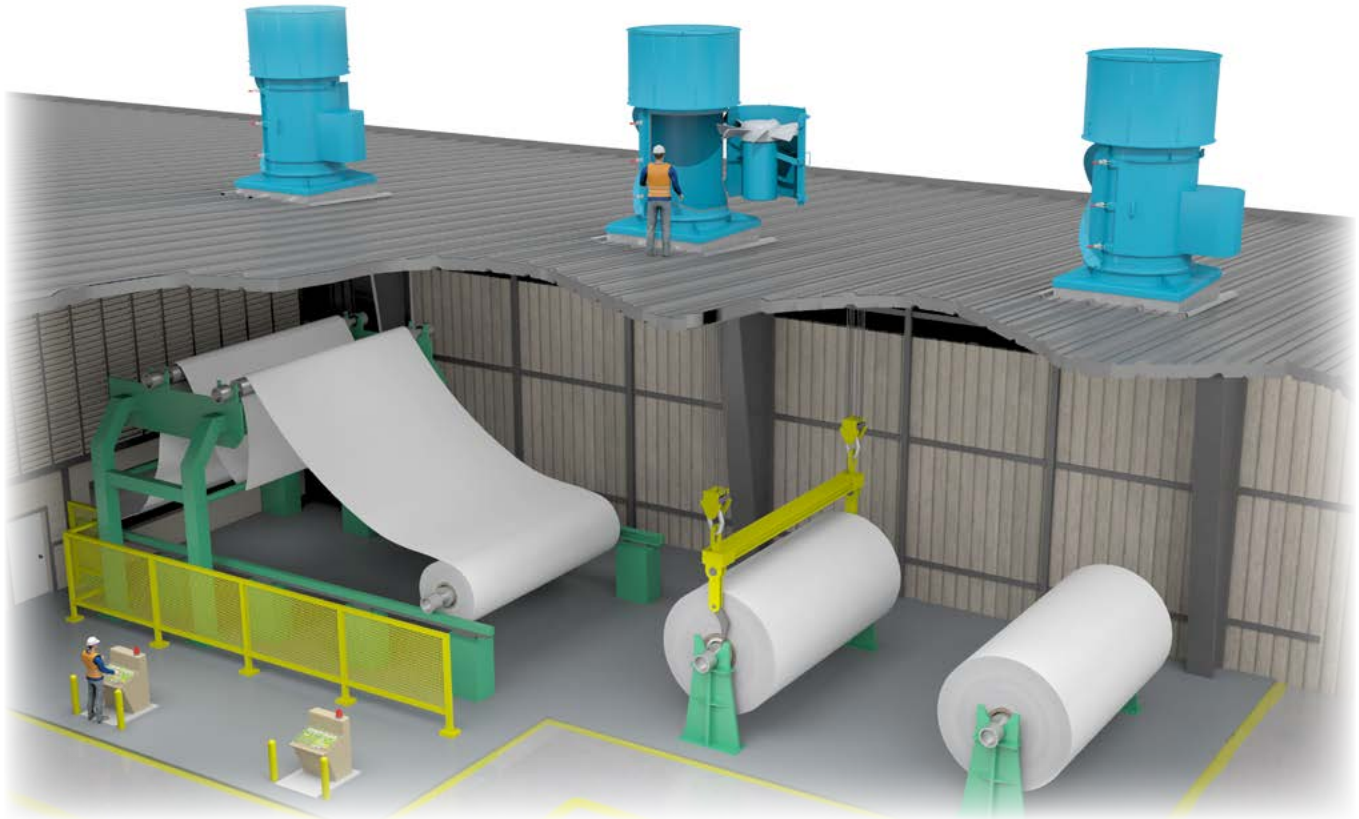
FIBERGLASS TYPE TF VANEAXIAL FAN, BELT DRIVEN

- > 12 to 60 inches (305 mm to 1,525 mm) impeller diameters
- > Airflow to 81,200 CFM (138,000 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > **Typical Applications:** Chemical/Corrosive Environments, Exhaust Applications, Water Treatment, Air Pollution Control, Process Air, High Moisture Environments

 CATALOG 1925

Axial Swingout & Clamshell Construction

Easy access for frequent cleaning



Full Swingout



Single & Double Door Clamshell

AXIAL SWINGOUT FANS

Axial swingout fans are designed for frequent cleaning and allow easy access when servicing the unit or when conducting routine maintenance.

- > **Full Swingout Fans:** Impeller shaft and bearings are mounted to the door providing easy access to all components outside of the airstream.
- > **Single & Double Door Clamshell:** Large, hinged access doors provide easy access to the fan components. Impeller, shaft and bearings are mounted to the housing and stay in the airstream when the doors are opened.
- > **Common Applications:** Paint Finishing Systems, Pulp/ Paper Production, Heat Recovery Steam Generators, Potash Production, Slurry Prep Facilities, Steel and Aluminum Foundries



ROOF VENTILATORS



OVERVIEW



Model THB
Manufacturing Plant Exhaust

ROOF VENTILATORS

Roof ventilators provide cost-effective, general purpose exhaust ventilation of commercial buildings as well as a large variety of industrial applications. Belt and direct drive models are available with cast aluminum, adjustable pitch or fabricated steel, fixed pitch impellers to meet specific application requirements.



Model LUBMO
Warehouse Exhaust

IMPELLER TYPES

Fixed Pitch Fabricated Steel and Cast Aluminum, Adjustable Pitch Cast Aluminum

TYPICAL INDUSTRIES

Agriculture, Air Pollution Control, Automotive, Boilers, Brick, Car Wash, Commercial Plan & Spec, Composting, Ethanol, Food & Beverage, Foundry, General Manufacturing, Glass, Green/LEED, HVAC, Institutional & Hospitality, Metal & Minerals, Microchip, Mining, Nuclear, OEM, Petrochemical, Pharmaceutical, Power Generation, Pulp & Paper, Recycling, Textile, Transportation



Model LHB
Storage Facility

COMMON ACCESSORIES

Access Doors, Backdraft Dampers, Roof Curbs, Inlet Guards, Bird Screens, Insect Screens, Two Groove Drive Minimum, Fusible Links, Belt Tubes, Motor Covers, Externally Mounted Conduit Boxes, Tall Base, Curb Hinges, Metal Nameplates, Automatic Belt Tensioners, Extended Lube Lines, Tie Downs, Insulated Hoods, Magnetic Damper Latches, AMCA Spark B Construction, Roof Curbs, Curb Extensions, Disconnect Switches, Single Point Wiring, Special Coatings



Model THD
Glass Manufacturing

CERTIFICATIONS

UL 705 Listed for Electrical, UL Listed for Smoke Control Systems



LUD

LOW PROFILE UPBLAST ROOF VENTILATOR,
DIRECT DRIVE

- > 14 to 48 inches (355 mm to 1,220 mm) impeller diameters
- > Airflow to 34,500 CFM (58,600 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation



☰ CATALOG 4870

LUB

LOW PROFILE UPBLAST ROOF VENTILATOR,
BELT DRIVEN

- > 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
- > Airflow to 60,800 CFM (103,300 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation



☰ CATALOG 4870

LUBMO

LOW PROFILE MOTOR OUT OF AIRSTREAM UPBLAST ROOF
VENTILATOR, BELT DRIVEN

- > 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
- > Airflow to 59,800 CFM (101,600 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation



☰ CATALOG 4870

LUBSH

LOW PROFILE UPBLAST ROOF VENTILATOR, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
- > Airflow to 59,800 CFM (101,600 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL listed for Smoke Control Systems
- > **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization/Exhaust, General Warehouse Ventilation



☰ CATALOG 4870



CATALOG 4850



TUD

UPBLAST TUBEAXIAL ROOF VENTILATOR, DIRECT DRIVE

- > 14 to 48 inches (355 mm to 1,220 mm) impeller diameters
- > Airflow to 39,100 CFM (66,400 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation



CATALOG 4850



TUB

UPBLAST TUBEAXIAL ROOF VENTILATOR, BELT DRIVEN

- > 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
- > Airflow to 72,400 CFM (123,000 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation



CATALOG 4850



TUBSH

UPBLAST TUBEAXIAL ROOF VENTILATOR, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 24 to 60 inches (610 mm to 1,525 mm) impeller diameters
- > Airflow to 70,700 CFM (120,100 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems
- > **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization/Exhaust, General Warehouse Ventilation



CATALOG 1925

PRVF

FIBERGLASS TUBEAXIAL ROOF VENTILATOR

- > 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
- > Airflow to 50,800 CFM (86,300 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **Typical Applications:** Exhaust Applications, Water Treatment, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments

LHD

LOW PROFILE HOODED PRV, DIRECT DRIVE

- > 14 to 48 inches (355 mm to 1,220 mm) impeller diameters
- > Airflow to 33,500 CFM (56,900 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation

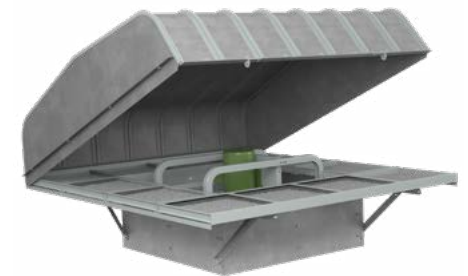


CATALOG 4860

LHDF

FILTERED LOW PROFILE HOODED PRV, DIRECT DRIVE

- > 21 to 48 inches (535 mm to 1,220 mm) impeller diameters
- > Airflow to 30,400 CFM (51,600 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > **Typical Applications:** General HVAC, Generator Room Ventilation, General Rooftop Supply, General Warehouse Ventilation



CATALOG 4860

LHB

LOW PROFILE HOODED PRV, BELT DRIVEN

- > 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
- > Airflow to 57,800 CFM (98,200 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation



CATALOG 4860

LHBF

FILTERED LOW PROFILE HOODED PRV, BELT DRIVEN

- > 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
- > Airflow to 57,600 CFM (97,860 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > **Typical Applications:** General HVAC, Generator Room Ventilation, General Rooftop Supply



CATALOG 4860



CATALOG 4850



THD

HOODED TUBEAXIAL ROOF VENTILATOR, DIRECT DRIVE

- > 14 to 48 inches (355 mm to 1,220 mm) impeller diameters
- > Airflow to 36,400 CFM (61,800 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation



CATALOG 4850



THDF

FILTERED HOODED TUBEAXIAL ROOF VENTILATOR, DIRECT DRIVE

- > 21 to 48 inches (355 mm to 1,220 mm) impeller diameters
- > Airflow to 36,400 CFM (61,800 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > UL 705 listed
- > **Typical Applications:** General HVAC, Generator Room Ventilation, General Rooftop Supply, General Warehouse Ventilation



CATALOG 4850



THB

HOODED TUBEAXIAL ROOF VENTILATOR, BELT DRIVEN

- > 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
- > Airflow to 63,800 CFM (108,400 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > UL 705 listed
- > **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation



CATALOG 4850



THBF

FILTERED HOODED TUBEAXIAL ROOF VENTILATOR, BELT DRIVEN

- > 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
- > Airflow to 63,800 CFM (108,400 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > UL 705 listed
- > **Typical Applications:** General HVAC, Generator Room Ventilation, General Rooftop Supply, General Warehouse Ventilation

GRAVITY VENTILATORS

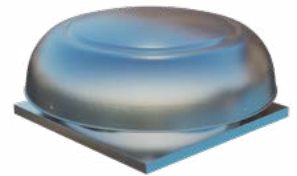
OVERVIEW

Gravity, or natural, ventilation is a means of ventilating a building by strategically placing openings in the building exterior in order to take advantage of naturally occurring phenomena. With a wide range of designs and styles, Twin City Fan & Blower can supply the right gravity ventilator whether it is selected based on performance, size, aesthetic appeal, weather resistance, construction, climate or cost. Gravity ventilators are designed to provide relief (exhaust) and intake (supply) airflow for a number of commercial and light industrial applications.

GRV

SPUN ALUMINUM GRAVITY RELIEF & INTAKE VENTILATORS

- > 9 to 48.3 inches (230 mm to 1,230 mm) round throat sizes
- > Airflow to 25,100 CFM (42,600 m³/hour)
- > Static pressure to 0.375 inches w.g. (90 Pa)



 CATALOG 4720

MGR / MGI

MODULAR HOODED GRAVITY RELIEF & INTAKE VENTILATORS

- > 8 to 180 inches (205 mm to 4,575 mm) throat sizes
- > **MGR:** Airflow to 109,000 CFM (185,200 m³/hour)
- > **MGR:** Static pressure to 0.3 inches w.g. (80 Pa)
- > **MGI:** Airflow to 91,200 CFM (154,900 m³/hour)
- > **MGI:** Static pressure to 0.4 inches w.g. (100 Pa)



 CATALOG 4720

TIL / TEL

LOUVERED PENTHOUSE GRAVITY RELIEF & INTAKE VENTILATORS

- > 12 to 144 inches (305 mm to 3,660 mm) square throat sizes
- > 3 to 20 tiers high
- > Airflow to 85,700 CFM (145,600 m³/hour)
- > Static pressure to 0.15 inches w.g. (40 Pa)



 CATALOG 4720

RADIAL BLADED FANS



OVERVIEW



Model RBO
Recirculation Fan for Melting Plastic

RADIAL BLADED FANS

Radial bladed fans provide a solution for a wide range of industrial applications. The heavy-gauge, all-welded construction has earned it the reputation of being the “workhorse” of the industry — a design proven by years of service handling dirty, abrasive, sticky or bulky particulate-laden airstreams. With multiple sizes and materials available, there is a fan available to meet the applications needs.

IMPELLER TYPES

Fabricated Paddle Impellers, Wool Impellers with Back Plate & Heavy Gusseted Bulk Material Handling Impellers, Fiberglass, Cast Aluminum Radial or Backward Curved

TYPICAL INDUSTRIES

Aerospace, Agriculture, Air Pollution Control, Asphalt, Automotive, Boilers, Brick, Cement, Chemical, Coal, Composting, Ethanol, Foundry, General Manufacturing, Glass, Industrial Processes, Metal & Minerals, Mining, Nuclear, OEM, Petrochemical, Pharmaceutical, Power Generation, Pulp & Paper, Recycling, Textile, Water Treatment

COMMON ACCESSORIES

Access Door, Belt Guards, Drain, Inlet/Outlet Companion Flange, Inlet/Outlet Damper, Inlet Filter, Inlet/Outlet Flange, Inlet/Outlet Screen, Inlet/Outlet Silencer, Shaft & Bearing Guard, Shaft Seal, Split Housing, Vibration Isolation, Special Coatings, Insulated Housings

OPTIONAL CONSTRUCTION

Abrasion Resistant Construction, High Temperature Construction, Nominally Leak-Tight Construction, Spark Resistant Construction (Type A, B and C), Special Materials



Model TPB
Hospital Exhaust



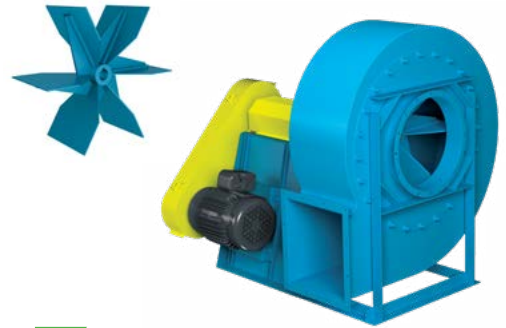
Model RBO
Sawdust Mill



RBO

INDUSTRIAL RADIAL BLADE FAN, PADDLE IMPELLER

- > 8.75 to 104.25 inches (225 mm to 2,650 mm) impeller diameters
- > Airflow to 141,800 CFM (240,900 m³/hour)
- > Static pressure to 46 inches w.g. (11,440 Pa)
- > AMCA licensed for Air and Fan Energy Index
- > **Typical Applications:** Dust Collection, Pneumatic Conveying, Water Treatment, Explosion-Proof Processes, General HVAC, Air Pollution Control, Material Handling, High Temperature

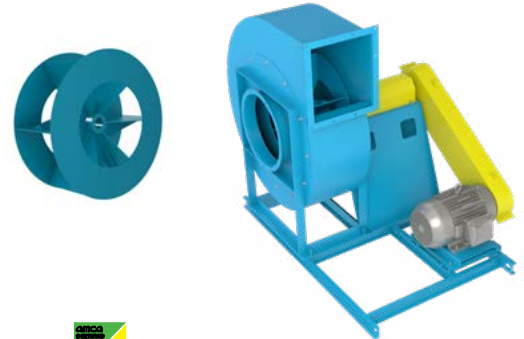


☰ CATALOG 902

RBR

INDUSTRIAL RADIAL BLADE FAN, PADDLE IMPELLER

- > 45.13 to 85.25 inches (1,150 mm to 2,165 mm) impeller diameters
- > Airflow to 94,800 CFM (161,100 m³/hour)
- > Static pressure to 46 inches w.g. (11,440 Pa)
- > AMCA licensed for Air and Fan Energy Index
- > **Typical Applications:** Dust Collection, Pneumatic Conveying, Water Treatment, Explosion-Proof Processes, General HVAC, Air Pollution Control, Material Handling, High Temperature

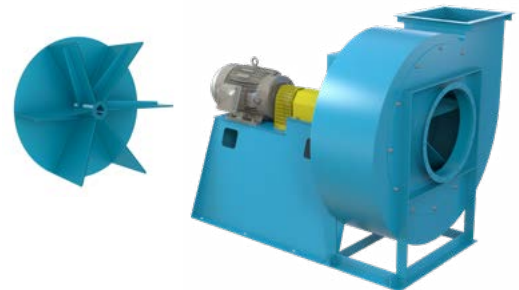


☰ CATALOG 902

RBW

INDUSTRIAL RADIAL BLADE FAN, BACK PLATE WOOD IMPELLER

- > 8.75 to 104.25 inches (225 mm to 2,650 mm) impeller diameters
- > Airflow to 141,800 CFM (240,900 m³/hour)
- > Static pressure to 46 inches w.g. (11,440 Pa)
- > AMCA licensed for Air and Fan Energy Index
- > **Typical Applications:** Dust Collection, Pneumatic Conveying, Water Treatment, Explosion-Proof Processes, General HVAC, Air Pollution Control, Material Handling, High Temperature

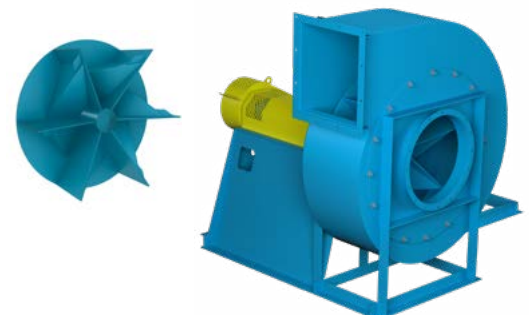


☰ CATALOG 902

RBP

INDUSTRIAL RADIAL BLADE FAN, PAPER HANDLING IMPELLER

- > 19.13 to 45.13 inches (485 mm to 1,150 mm) impeller diameters
- > Airflow to 26,500 CFM (45,000 m³/hour)
- > Static pressure to 32 inches w.g. (7,960 Pa)
- > **Typical Applications:** Dust Collection, Pneumatic Conveying, Water Treatment, Explosion-Proof Processes, General HVAC, Air Pollution Control, Material Handling, High Temperature



☰ CATALOG 902



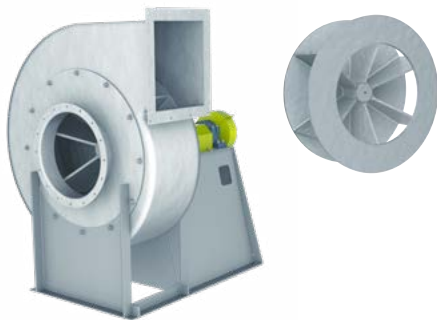
CATALOG 902



RBA

INDUSTRIAL RADIAL BLADE FAN, AIR HANDLING IMPELLER

- > 12.25 to 104.25 inches (315 mm to 2,650 mm) impeller diameters
- > Airflow to 141,800 CFM (240,900 m³/hour)
- > Static pressure to 46 inches w.g. (11,440 Pa)
- > AMCA licensed for Air and Fan Energy Index
- > **Typical Applications:** High Temperature, Pneumatic Conveying, Explosion-Proof Processes, Dust Collection, Water Treatment, Process Cooling, Drying Applications, General HVAC, Air Pollution Control



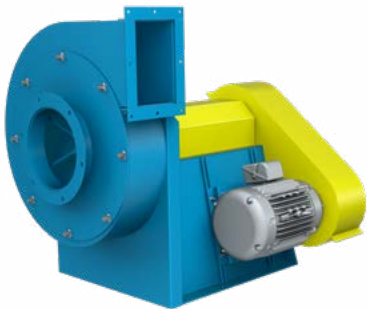
CATALOG 431



RBOF

FIBERGLASS RADIAL BLADE CENTRIFUGAL FAN

- > 10.63 to 57.5 inches (270 mm to 1,465 mm) impeller diameters
- > Airflow to 38,300 CFM (65,100 m³/hour)
- > Static pressure to 18 inches w.g. (4,480 Pa)
- > AMCA licensed for Air and Fan Energy Index
- > **Typical Applications:** Chemical/Corrosive Environments, Marine, Water Treatment, Exhaust Applications, Explosion-Proof Processes, Air Pollution Control, Process Air, General HVAC, High Moisture Environments



CATALOG 800

JRW

COMPACT DESIGN INDUSTRIAL FAN

- > 8.75 to 15.63 inches (225 mm to 400 mm) impeller diameters
- > Airflow to 2,000 CFM (3,400 m³/hour)
- > Static pressure to 14 inches w.g. (3,480 Pa)
- > **Typical Applications:** Air Pollution Control, Pneumatic Conveying, Boiler Systems, Process Cooling, Exhaust, Water Treatment, Dust Collection, Drying Applications, Explosion-Proof Processes, General HVAC, Vacuum Systems, General Manufacturing



CATALOG 850

CIW

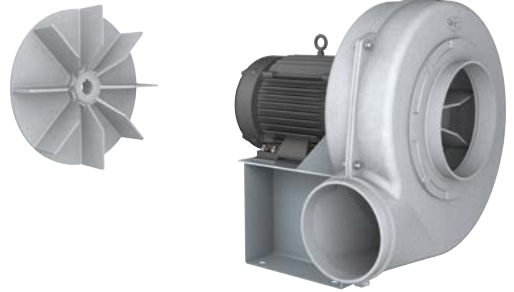
CAST IRON BLOWER

- > 6.75 to 14 inches (175 mm to 355 mm) impeller diameters
- > Airflow to 2,000 CFM (3,400 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > **Typical Applications:** Air Pollution Control, Pneumatic Conveying, Boiler Systems, Process Cooling, Water Treatment, Exhaust, Dust Collection, Drying Applications, Explosion-Proof Processes, General HVAC, Vacuum Systems, General Manufacturing, Combustion Air

TPD

CAST ALUMINUM PRESSURE BLOWER, DIRECT DRIVE

- > 7 to 18 inches (180 mm to 460 mm) impeller diameters
- > Airflow to 2,800 CFM (4,800 m³/hour)
- > Static pressure to 20 inches w.g. (4,970 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, General HVAC, Explosion-Proof Processes, Process Cooling, Exhaust, Drying Applications, Material Handling, Pneumatic Conveying, Vacuum Systems, Wastewater Treatment, Combustion Air, Moisture Blow-Off

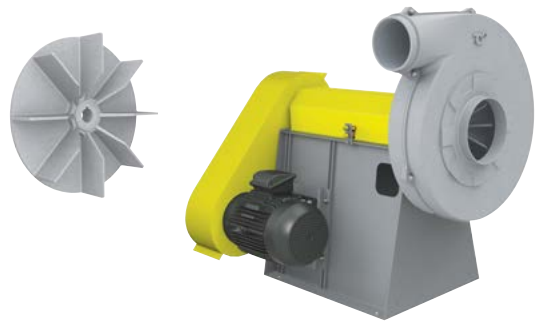


 CATALOG 820

TPB

CAST ALUMINUM PRESSURE BLOWER, BELT DRIVEN

- > 8 to 18 inches (205 mm to 460 mm) impeller diameters
- > Airflow to 2,400 CFM (4,100 m³/hour)
- > Static pressure to 22 inches w.g. (5,470 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, General HVAC, Explosion-Proof Processes, Process Cooling, Exhaust, Drying Applications, Material Handling, Pneumatic Conveying, Vacuum Systems, Wastewater Treatment, Combustion Air, Moisture Blow-Off



 CATALOG 820

RADIAL TIP & HIGH EFFICIENCY FANS



OVERVIEW



Model HIB
Composting

RADIAL TIP & HIGH EFFICIENCY FANS

Radial tip and high efficiency fans offer great efficiencies for a wide range of applications requiring high airflow and moderate pressures. The non-overloading design can handle high temperatures, corrosive airstreams and light particulate where the radial tip designs are better suited for dirty, particulate-laden air. With high airflows the radial tip fan is much more efficient than the comparable radial blade fan.



Model HAF
Pneumatic Dust Collection

IMPELLER TYPES

High Efficiency Non-Overloading Backward Curved & Airfoil, Self-Cleaning Radial Tip

TYPICAL INDUSTRIES

Asphalt, Boiler, Brick, Cement, Chemical, Coal, Ethanol, Foundry, Glass, Industrial Processes, Metal & Minerals, Mining, Nuclear, Petrochemical, Power Generation, Pulp & Paper, Water Treatment

COMMON ACCESSORIES

Access Door, Belt Guards, Evasé, Drain, Inlet/Outlet Companion Flange, Inlet/Outlet Screen, Piezometer Ring Airflow Measurement System, Shaft & Bearing Guards, Shaft Seal, Split Housing, Inlet Box, Inlet/Outlet Dampers, Bases, Special Coatings, Insulated Housings

OPTIONAL CONSTRUCTION

Special Width & Diameter Impellers, High Temperature, Nominally Leak-Tight Construction, Spark Resistant Construction (Type A, B and C)



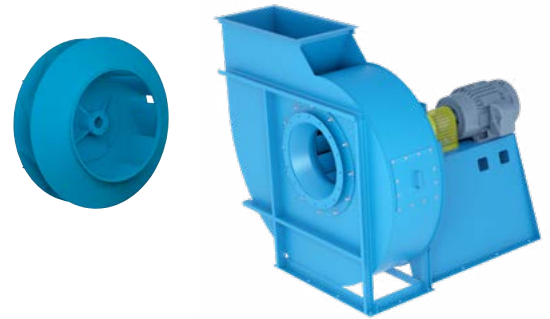
Model HIB
DeNOx Process



HAF

HIGH EFFICIENCY INDUSTRIAL AIRFOIL FAN

- > 25 to 82 inches (635 mm to 2,085 mm) impeller diameters
- > Airflow to 160,000 CFM (271,800 m³/hour)
- > Static pressure to 50 inches w.g. (12,430 Pa)
- > **Typical Applications:** Drying Applications, Process Cooling, Exhaust, Dust Collection, Explosion-Proof Processes, Forced Draft, Induced Draft, Process Ventilation, Water Treatment, Pollution Control

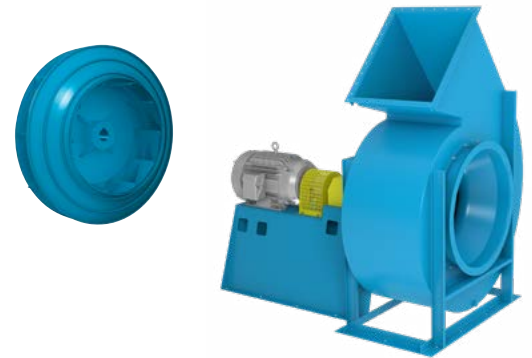


 CATALOG 1150

HIB

HIGH EFFICIENCY INDUSTRIAL BACKWARD CURVED FAN

- > 20.5 to 90.75 inches (520 mm to 2,310 mm) impeller diameters
- > Airflow to 177,500 CFM (301,600 m³/hour)
- > Static pressure to 36 inches w.g. (8,950 Pa)
- > **Typical Applications:** Drying Applications, Process Cooling, Exhaust, Dust Collection, Explosion-Proof Processes, Forced Draft, Induced Draft, Process Ventilation, Water Treatment, Pollution Control

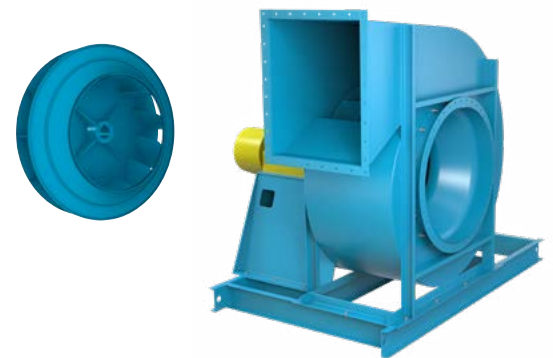


 CATALOG 1100

RTF

RADIAL TIP FAN

- > 20.5 to 90.75 inches (520 mm to 2,305 mm) impeller diameters
- > Airflow to 223,800 CFM (380,200 m³/hour)
- > Static pressure to 36 inches w.g. (8,950 Pa)
- > **Typical Applications:** Exhaust Applications, Dust Collection, Explosion-Proof Processes, Induced Draft, Material Handling, Air Pollution Control, Process Ventilation, Pollution Control, Vacuum Systems, General Manufacturing

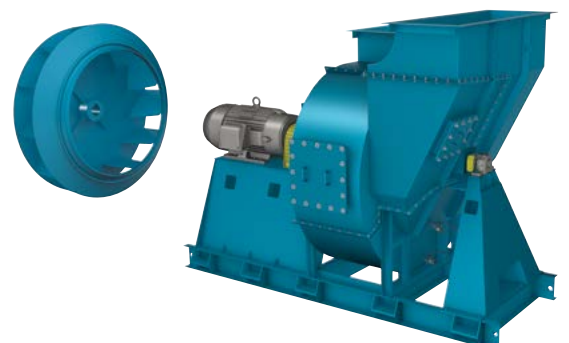


 CATALOG 950

HRT

RADIAL TIP FAN, HIGH SPECIFIC SPEED

- > 27 to 80.75 inches (685 mm to 2,055 mm) impeller diameters
- > Airflow to 254,700 CFM (432,700 m³/hour)
- > Static pressure to 32 inches w.g. (7,960 Pa)
- > **Typical Applications:** Exhaust Applications, Dust Collection, Explosion-Proof Processes, Induced Draft, Material Handling, Air Pollution Control, Process Ventilation, Pollution Control, Vacuum Systems, General Manufacturing



 CATALOG 980

PRESSURE BLOWERS



OVERVIEW



Model TBR
NOx Exhaust



Model MBO
Flue Gas Recirculation



Model TPB
Hospital Ventilation



Model TBR
Process Fan

PRESSURE BLOWERS

Pressure blowers are ideal for applications requiring high pressures at relatively low volumes of air. Pressure blower performance will remain stable through the operating range and can be turned down to zero flow via a discharge damper. Twin City Fan & Blower offers a wide range of fan types and sizes to meet clean or particulate-laden airstream applications.

IMPELLER TYPES

Backward Curved, Backward Inclined & Radial Fabricated Impellers in Open or Shrouded Designs, Fiberglass, Cast Aluminum Radial or Backward Curved

TYPICAL INDUSTRIES

Air Pollution Control, Asphalt, Boilers, Brick, Cement, Chemical, Coal, Composting, Ethanol, Food & Beverage, Foundry, General Manufacturing, Glass, Industrial Processes, Metal & Minerals, Microchip, Mining, Nuclear, Petrochemical, Pharmaceutical, Power Generation, Pulp & Paper, Recycling, Textile, Transportation, Water Treatment

COMMON ACCESSORIES

Access Door, Belt Guards, Drain, Evasé, Inlet Bell, Inlet Box, Inlet/Outlet Companion Flange, Inlet/Outlet Damper, Inlet Filter, Inlet/Outlet Flange, Inlet/Outlet Screen, Inlet/Outlet Silencer, Outlet Blast Gate, Shaft & Bearing Guard, Shaft Seal, Split Housing, Vibration Isolation, Special Coatings, Insulated Housings

OPTIONAL CONSTRUCTION

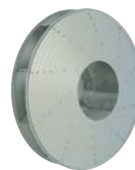
High Temperature Construction, Nominally Leak-Tight Construction, Spark Resistant Construction (Type A, B and C), Special Materials



TBNA

TURBO PRESSURE BLOWER, ALUMINUM IMPELLER

- > 14.5 to 38 inches (370 mm to 970 mm) impeller diameters
- > Airflow to 20,000 CFM (34,000 m³/hour)
- > Static pressure to 128 inches w.g. (31,820 Pa)
- > **Typical Applications:** Air Pollution Control, Process Cooling, Dust Collection, Explosion-Proof Processes, Drying Applications, Vacuum Systems, Process Applications, General Manufacturing, Exhaust, Wastewater Treatment, Combustion Air



 CATALOG 1250

TBNS

TURBO PRESSURE BLOWER, STEEL IMPELLER

- > 14.5 to 38 inches (370 mm to 970 mm) impeller diameters
- > Airflow to 20,000 CFM (34,000 m³/hour)
- > Static pressure to 128 inches w.g. (31,820 Pa)
- > **Typical Applications:** Air Pollution Control, Process Cooling, Dust Collection, Explosion-Proof Processes, Drying Applications, Material Handling, Pneumatic Conveying, Process Applications, Wastewater Treatment, Vacuum Systems, Combustion Air, Exhaust, General Manufacturing



 CATALOG 1250

TBA

TURBO PRESSURE BLOWER, AIR HANDLING IMPELLER

- > 11.19 to 32.06 inches (285 mm to 815 mm) impeller diameters
- > Airflow to 28,700 CFM (48,800 m³/hour)
- > Static pressure to 70 inches w.g. (17,400 Pa)
- > **Typical Applications:** Air Pollution Control, Process Cooling, Dust Collection, Explosion-Proof Processes, Drying Applications, Vacuum Systems, Process Applications, General Manufacturing, Exhaust, Wastewater Treatment, Combustion Air

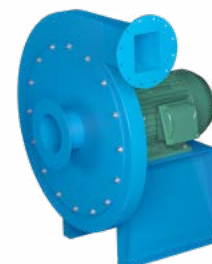


 CATALOG 1200

TBR

TURBO PRESSURE BLOWER, RADIAL BLADED IMPELLER

- > 10.75 to 35.19 inches (275 mm to 895 mm) impeller diameters
- > Airflow to 10,100 CFM (17,200 m³/hour)
- > Static pressure to 104 inches w.g. (25,860 Pa)
- > **Typical Applications:** Air Pollution Control, Process Cooling, Dust Collection, Explosion-Proof Processes, Drying Applications, Vacuum Systems, Process Applications, General Manufacturing, Exhaust, Wastewater Treatment, Combustion Air



 CATALOG 1200

BCN

BACKWARD CURVED HIGH PRESSURE FAN

- > 27 to 73 inches (685 mm to 1,855 mm) impeller diameters
- > Airflow to 75,000 CFM (127,400 m³/hour)
- > Static pressure to 100 inches w.g. (24,860 Pa)
- > **Typical Applications:** Air Pollution Control, Boiler Systems, Exhaust, Process Cooling, Dust Collection, Forced Draft, Explosion-Proof Processes, Water Treatment, General HVAC, Process Applications, General Manufacturing, Combustion Air, Drying



 CATALOG 1450

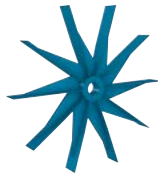


CATALOG 1260

PBW

PRESSURE BLOWER, BACK PLATE RADIAL

- > 19 to 26 inches (485 mm to 660 mm) impeller diameters
- > Airflow to 7,700 CFM (13,100 m³/hour)
- > Static pressure to 60 inches w.g. (14,920 Pa)
- > **Typical Applications:** Textile Fiber Stripping and Recycling, Air Pollution Control, Process Cooling, Dust Collection, Explosion-Proof Processes, Drying Applications, Material Handling, Pneumatic Conveying, Process Applications, Wastewater Treatment, Vacuum Systems, Combustion Air, Exhaust, General Manufacturing



CATALOG 1400

MBO

HEAVY-DUTY PRESSURE BLOWER, OPEN RADIAL

- > 19.63 to 58.94 inches (500 mm to 1,500 mm) impeller diameters
- > Airflow to 18,000 CFM (30,600 m³/hour)
- > Static pressure to 170 inches w.g. (42,270 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, Exhaust, Process Cooling, Explosion-Proof Processes, General HVAC, Drying Applications, Vacuum Systems, Material Handling, Pneumatic Conveying, Wastewater Treatment, Process Applications, Combustion Air

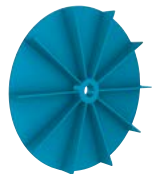


CATALOG 1400

MBR

HEAVY-DUTY PRESSURE BLOWER, HIGH PRESSURE AIR HANDLING

- > 19.63 to 58.94 inches (500 mm to 1,500 mm) impeller diameters
- > Airflow to 18,000 CFM (30,600 m³/hour)
- > Static pressure to 180 inches w.g. (44,750 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, Exhaust, Process Cooling, Explosion-Proof Processes, General HVAC, Drying Applications, Vacuum Systems, Material Handling, Pneumatic Conveying, Wastewater Treatment, Process Applications, Combustion Air



CATALOG 1400

MBW

HEAVY-DUTY PRESSURE BLOWER, BACK PLATE RADIAL

- > 19.63 to 58.94 inches (500 mm to 1,500 mm) impeller diameters
- > Airflow to 20,000 CFM (34,000 m³/hour)
- > Static pressure to 160 inches w.g. (39,780 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, Exhaust, Process Cooling, Explosion-Proof Processes, Drying, General HVAC, Vacuum Systems, Material Handling, Pneumatic Conveying, Wastewater Treatment, Process Applications, Combustion Air



CATALOG 1910

HPF

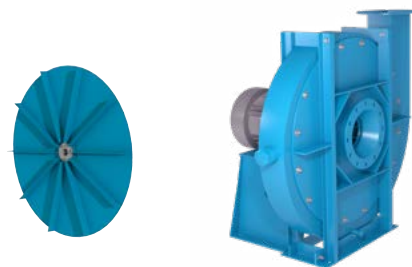
FIBERGLASS HIGH PRESSURE BLOWER, RADIAL BLADE

- > 18 to 28 inches (460 mm to 715 mm) impeller diameters
- > Airflow to 4,700 CFM (8,000 m³/hour)
- > Static pressure to 36 inches w.g. (8,950 Pa)
- > **Typical Applications:** Water Treatment, Explosion-Proof Processes, Chemical/Corrosive Environments, Air Pollution Control, Process Air, Exhaust, High Moisture Environments, General HVAC, Combustion Air, Marine

HRO

HIGH PRESSURE RADIAL PRESSURE BLOWER, OPEN IMPELLER

- > 19.75 to 61.25 inches (505 mm to 1,555 mm) impeller diameters
- > Airflow to 8,500 CFM (14,400 m³/hour)
- > Static pressure to 103 inches w.g. (25,610 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, Process Cooling, Explosion-Proof Processes, Drying Applications, Exhaust, Vacuum Systems, Material Handling, Pneumatic Conveying, Wastewater Treatment, Process Applications, Combustion Air, General HVAC

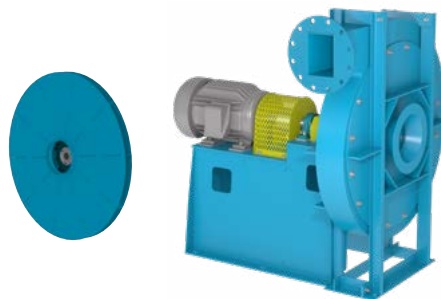


CATALOG 1300

HRS

HIGH PRESSURE RADIAL PRESSURE BLOWER, SHROUDED IMPELLER

- > 19.75 to 61.25 inches (505 mm to 1,555 mm) impeller diameters
- > Airflow to 10,000 CFM (17,000 m³/hour)
- > Static pressure to 120 inches w.g. (29,840 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, Process Cooling, Explosion-Proof Processes, Drying Applications, Vacuum Systems, Material Handling, Exhaust, Pneumatic Conveying, Wastewater Treatment, Process Applications, Combustion Air, General HVAC

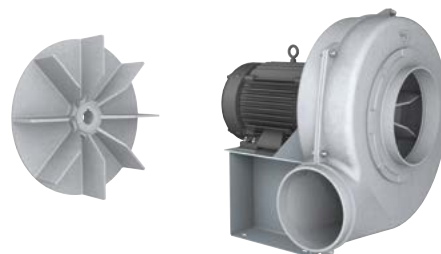


CATALOG 1300

TPD

CAST ALUMINUM PRESSURE BLOWER, DIRECT DRIVE

- > 7 to 18 inches (180 mm to 460 mm) impeller diameters
- > Airflow to 2,800 CFM (4,800 m³/hour)
- > Static pressure to 20 inches w.g. (4,970 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, General HVAC, Explosion-Proof Processes, Process Cooling, Exhaust, Drying Applications, Material Handling, Pneumatic Conveying, Vacuum Systems, Wastewater Treatment, Combustion Air, Moisture Blow-Off

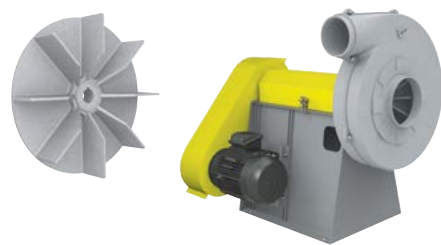


CATALOG 820

TPB

CAST ALUMINUM PRESSURE BLOWER, BELT DRIVEN

- > 8 to 18 inches (205 mm to 460 mm) impeller diameters
- > Airflow to 2,400 CFM (4,100 m³/hour)
- > Static pressure to 22 inches w.g. (5,470 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, General HVAC, Explosion-Proof Processes, Process Cooling, Exhaust, Drying Applications, Material Handling, Pneumatic Conveying, Vacuum Systems, Wastewater Treatment, Combustion Air, Moisture Blow-Off



CATALOG 820

CIW

CAST IRON BLOWER

- > 6.75 to 14 inches (175 mm to 355 mm) impeller diameters
- > Airflow to 2,000 CFM (3,400 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > **Typical Applications:** Air Pollution Control, Pneumatic Conveying, Boiler Systems, Process Cooling, Water Treatment, Dust Collection, Drying Applications, Explosion-Proof Processes, General HVAC, Exhaust, Vacuum Systems, General Manufacturing, Combustion Air



CATALOG 850

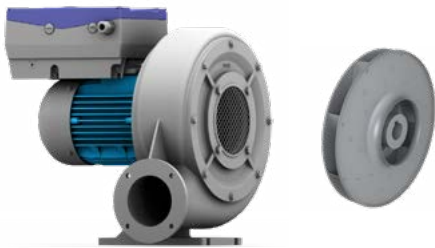


CATALOG 825

TXP

EXTREME PRESSURE BLOWER, COMPACT AND QUIET

- > 10 to 16 inches (250 mm to 415 mm) impeller diameters
- > Airflow to 3,200 CFM (5,400 m³/hour)
- > Static pressure to 55 inches w.g. (13,650 Pa)
- > **Typical Applications:** Combustion Air, Pressure and Vacuum Drying, Product Cooling, Primary Air Supply to Ejectors, Liquid Agitation, Glass Blowing and Cooling, Water Blow-Off, Air Pollution Control Systems, Heating and Ventilation, Exhausting, Pneumatic Conveying and Gas Boosting

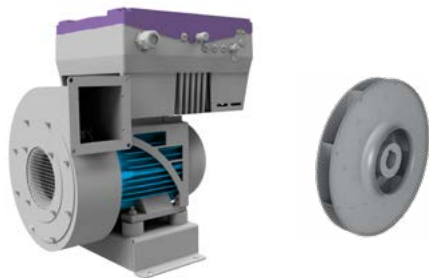


CATALOG 826

TXR

EXTREME PRESSURE BLOWER, ROBUST AND VERSATILE

- > 10 to 18 inches (250 mm to 450 mm) impeller diameters
- > Airflow to 3,425 CFM (5,820 m³/hour)
- > Static pressure to 64 inches w.g. (16,000 Pa)
- > **Typical Applications:** Combustion Air, Pressure and Vacuum Drying, Product Cooling, Primary Air Supply to Ejectors, Liquid Agitation, Glass Blowing and Cooling, Water Blow-Off, Air Pollution Control Systems, Heating and Ventilation, Exhausting, Pneumatic Conveying and Gas Boosting



CATALOG 827

TXS

EXTREME PRESSURE BLOWER, HIGH STATIC PRESSURE

- > 9.4 to 10 inches (240 mm to 245 mm) impeller diameters
- > Airflow to 1,550 CFM (2,640 m³/hour)
- > Static pressure to 88.5 inches w.g. (22,000 Pa)
- > **Typical Applications:** Combustion Air, Pressure and Vacuum Drying, Product Cooling, Primary Air Supply to Ejectors, Liquid Agitation, Glass Blowing and Cooling, Water Blow-Off, Air Pollution Control Systems, Heating and Ventilation, Exhausting, Pneumatic Conveying and Gas Boosting

MANCOOLERS



Mancoolers are constructed of high-quality axial fans and are designed for general industrial use. The mounted units are constructed on a movable base – both the inlet and the outlet are provided with screens as standard, and are fabricated to meet OSHA safety requirements. The fan's swivel base allows for a full 360° rotation, providing airflow from any angle. The stationary units can be adjusted for airflow in any direction and are manufactured with a predrilled base plate for wall, column, ceiling or floor mounting.

TCSM

MANCOOLER, STATIONARY MOUNT

- > 16 to 48 inches (410 mm to 1,220 mm) impeller diameters
- > Airflow to 41,200 CFM (70,000 m³/hour)



 CATALOG AX700



Shipping Department Exhaust Application

LABORATORY & FUME EXHAUST FANS



OVERVIEW



Model BCIFE
Generator Exhaust



Model TVIFE
Lab Exhaust



Model TVIFE
University Building Exhaust



Model TFE
Lab Exhaust

LABORATORY & FUME EXHAUST FANS

Laboratories and research facilities exhaust a wide variety of harmful fumes. In concentrated forms, these fumes can be hazardous to human life. Contaminated air must be exhausted in a way that prevents it from returning into the building and surrounding locations where people may be present. To effectively exhaust these fumes, which in many cases are corrosive and/or explosive in nature, fans are connected to one or more fume hoods to draw the contaminated air through. For proper ventilation, exhaust fans must be capable of moving air at high velocities to achieve a high plume height, as well as entraining clean ambient air to dilute the chemical concentration in the airstream. Twin City Fan & Blower offers a complete line of laboratory and fume exhaust fans for meeting the most stringent industry standards. Our laboratory exhaust fans are often constructed of specialty materials to withstand the fumes associated with these environments.

APPLICATIONS

Odor Control, Chemical Processing, Fume Hood Exhaust, Energy Recovery Systems, Industrial Processes, Diesel Generators

IMPELLER TYPES

Flat-Bladed Backward Inclined and Airfoil Centrifugal, Mixed Flow

COMMON ACCESSORIES

Mixing Plenum Box, Bypass Dampers, Isolation Dampers, Two-Position Spring Return Actuator, OSHA Belt Guards, Shaft & Bearing Guards, Vortex Breakers, Inlet Screens, Special Coatings, Roof Curbs, Piezometer Flow Measurement Rings and Disconnect Switches

OPTIONAL CONSTRUCTION

Spark Resistant Construction (Type B and C), High Temperature

CERTIFICATIONS

AMCA Sound/Air, UL 705 Listed for Electrical

TVIFE

INDUCED FLOW MIXED FLOW EXHAUST FAN, DIRECT DRIVE

- > 12.25 to 66 inches (315 mm to 1,680 mm) impeller diameters
- > Airflow to 86,000 CFM (146,400 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Induced Flow Sound and Air
- > UL 705 listed



CATALOG 1090



QIFE

INDUCED FLOW MIXED FLOW EXHAUST FAN, BELT DRIVEN

- > 12.25 to 66 inches (315 mm to 1,680 mm) impeller diameters
- > Airflow to 71,000 CFM (120,600 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Induced Flow Sound and Air
- > UL 705 listed



CATALOG 1080



BAIFE

INDUCED FLOW CENTRIFUGAL EXHAUST FAN, AIRFOIL BLADE

- > 12.25 to 66 inches (315 mm to 1,680 mm) impeller diameters
- > Airflow to 135,000 CFM (229,400 m³/hour)
- > Static pressure to 16 inches w.g. (3,980 Pa)
- > AMCA licensed for Induced Flow Sound, Air and Fan Energy Index
- > UL 705 listed



CATALOG 390



BCIFE

INDUCED FLOW CENTRIFUGAL EXHAUST FAN, BACKWARD INCLINED

- > 12.25 to 66 inches (315 mm to 1,680 mm) impeller diameters
- > Airflow to 132,000 CFM (224,300 m³/hour)
- > Static pressure to 15 inches w.g. (3,730 Pa)
- > UL 705 listed



CATALOG 390





QFE

FUME HOOD MIXED FLOW EXHAUST FAN, BELT DRIVEN

- > 9 to 54.25 inches (230 mm to 1,380 mm) impeller diameters
- > Airflow to 89,000 CFM (151,200 m³/hour)
- > Static pressure to 9 inches w.g. (2,240 Pa)
- > AMCA licensed for Sound and Air
- > UL 705 listed

CATALOG 1505



TFE

FUME HOOD INLINE EXHAUST FAN, BELT DRIVEN

- > 9 to 54.25 inches (230 mm to 1,380 mm) impeller diameters
- > Airflow to 78,000 CFM (132,500 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound and Air
- > UL 705 listed

CATALOG 1500



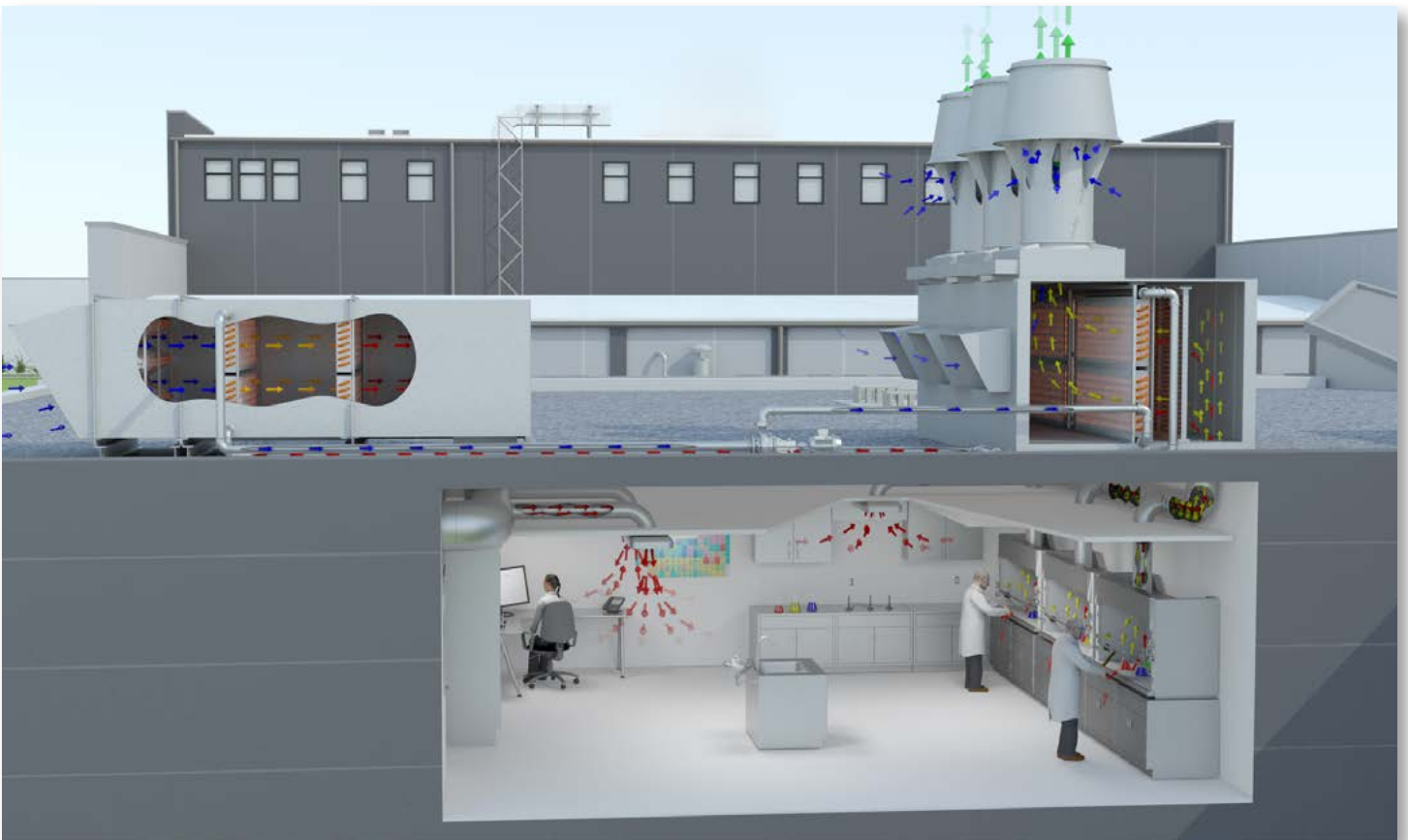
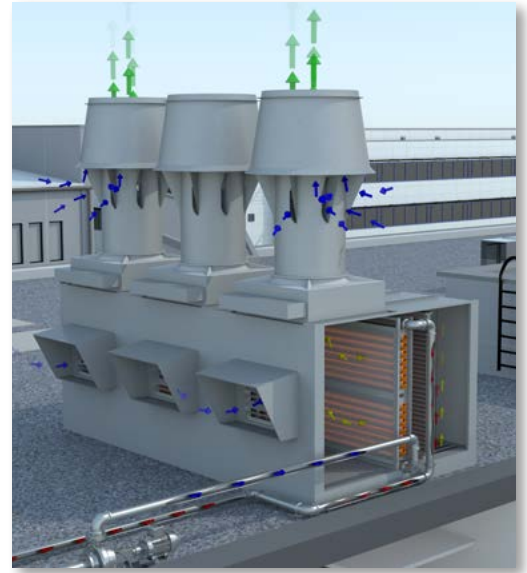
ENERGY RECOVERY SYSTEMS

LAB EXHAUST APPLICATIONS

Twin City Fan & Blower's energy recovery systems combine high efficiency fume exhaust fans with the latest in energy recovery technology. Utilizing an energy recovery system can greatly reduce your energy consumption and carbon footprint while simultaneously increasing your bottom line. Our energy recovery plenums are available in endless configurations to match your specific needs.

OPTIONAL ACCESSORIES

- > Heat exchanger bypass mode
- > Custom coatings
- > Special materials of construction
- > Fiberglass wall insulation



FIBERGLASS FANS



OVERVIEW



Model BCSF
Scrubber Fan



Model BCSF
Odor Control, Waste Management



Model BCSF
Odor Control, Wastewater Treatment



Model BCSF
Paper Mill

FIBERGLASS FANS

Fiberglass fans are specifically designed for the exhaust of moisture-laden, corrosive or chemically contaminated air. All fans feature molded fiberglass housings that are virtually impossible to dent, crack or break. FRP offers a more economical solution compared to stainless steel or other exotic alloys. Multiple impeller types and materials are available to meet any corrosive process requirements while maintaining quiet operation and high efficiency.

IMPELLER TYPES

Single Thickness Backward Inclined, Airfoil, Open Radial, Axial

TYPICAL INDUSTRIES

Agriculture, Air Pollution Control, Automotive, Car Wash, Cement, Chemical, Coal, Composting, Ethanol, Fertilizer, Food & Beverage, Foundry, General Manufacturing, Glass, HVAC, Industrial Processes, Institutional & Hospitality, Marine, Metal & Minerals, Mining, OEM, Petrochemical, Pharmaceutical, Power Generation, Pulp & Paper, Steel Processing, Textile, Water Treatment

COMMON ACCESSORIES

OSHA Belt Guards, Shaft and Bearing Guards, Inlet and Outlet Guards, Weather Covers, Shaft Seals, Access Doors, Inspection Doors, Cleanout Doors, Housing Drains, Flanged Inlets and Outlets, Dampers and Shutters, Unitary Bases

OPTIONAL CONSTRUCTION

Static Grounding, ASTM D4167 Construction, Stainless Steel Fan Shaft, Synthetic Surface Veil, Fire Retardant Resin, Vinyl Ester



BCSF

BACKWARD CURVED HIGH PRESSURE COMPOSITE FANS, SWSI

- > 16.5 to 60 inches (420 mm to 1,525 mm) impeller diameters
- > Airflow to 151,000 CFM (256,500 m³/hour)
- > Static pressure to 34 inches w.g. (8,450 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications:** Chemical/Corrosive Environments, Marine, Water Treatment, Air Pollution Control, Exhaust Applications, Process Air, Explosion-Proof Processes, General HVAC, High Moisture Environments

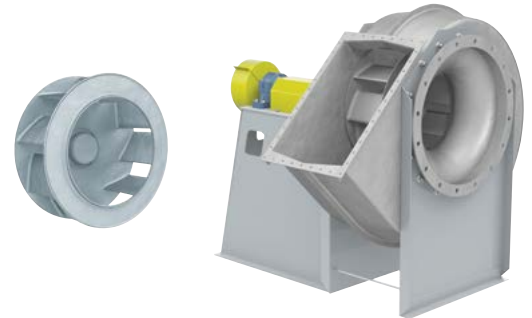


CATALOG 410

BAFF

FIBERGLASS SW AIRFOIL FAN, BIA IMPELLER

- > 12 to 25 inches (305 mm to 635 mm) impeller diameters
- > Airflow to 17,000 CFM (28,800 m³/hour)
- > Static pressure to 13.5 inches w.g. (3,360 Pa)
- > **Typical Applications:** Chemical/Corrosive Environments, Marine, Water Treatment, Exhaust Applications, Explosion-Proof Processes, Air Pollution Control, Process Air, High Moisture Environments, General HVAC



CATALOG 1900

RBOF

FIBERGLASS RADIAL BLADE CENTRIFUGAL FAN

- > 10.63 to 57.5 inches (270 mm to 1,465 mm) impeller diameters
- > Airflow to 38,300 CFM (65,100 m³/hour)
- > Static pressure to 18 inches w.g. (4,480 Pa)
- > AMCA licensed for Air and Fan Energy Index
- > **Typical Applications:** Chemical/Corrosive Environments, Marine, Water Treatment, Exhaust Applications, Process Air, Explosion-Proof Processes, Air Pollution Control, General HVAC, High Moisture Environment

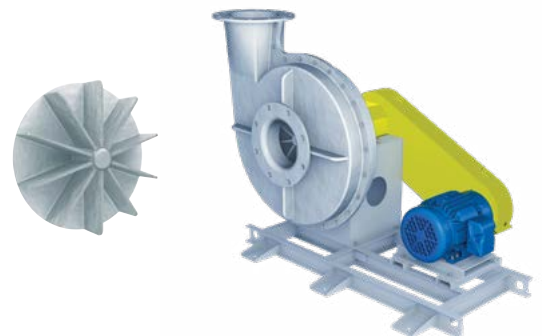


CATALOG 431

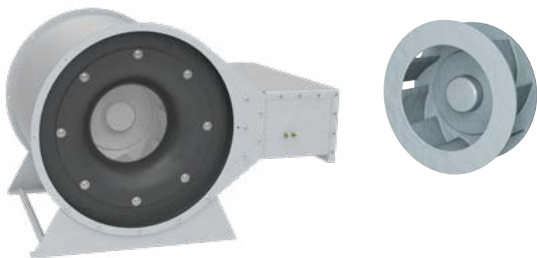
HPF

FIBERGLASS HIGH PRESSURE BLOWER, RADIAL BLADE

- > 18 to 28 inches (460 mm to 715 mm) impeller diameters
- > Airflow to 4,700 CFM (8,000 m³/hour)
- > Static pressure to 36 inches w.g. (8,950 Pa)
- > **Typical Applications:** Exhaust Applications, Water Treatment, Explosion-Proof Processes, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments, General HVAC, Marine



CATALOG 1910



ILCF

FIBERGLASS INLINE CENTRIFUGAL FAN

- > 12.4 to 25 inches (315 mm to 635 mm) impeller diameters
- > Airflow to 15,200 CFM (25,800 m³/hour)
- > Static pressure to 7 inches w.g. (1,740 Pa)
- > **Typical Applications:** Exhaust Applications, Water Treatment, Marine, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments

 CATALOG 1915



PRVF

FIBERGLASS TUBEAXIAL ROOF VENTILATOR

- > 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
- > Airflow to 50,800 CFM (86,300 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **Typical Applications:** Exhaust Applications, Water Treatment, Marine, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments

 CATALOG 1925

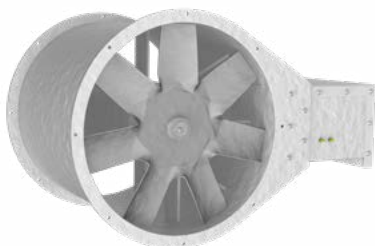


TAMF

FIBERGLASS TYPE FG7 TUBEAXIAL FAN, BELT DRIVEN

- > 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
- > Airflow to 51,900 CFM (88,200 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **Typical Applications:** Exhaust Applications, Water Treatment, Marine, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments

 CATALOG 1925



TAHF

FIBERGLASS TYPE TF TUBEAXIAL FAN, BELT DRIVEN

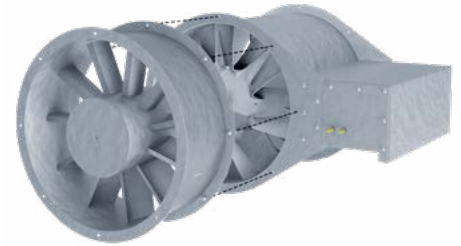
- > 12 to 60 inches (305 mm to 1,525 mm) impeller diameters
- > Airflow to 83,200 CFM (141,400 m³/hour)
- > Static pressure to 2.5 inches w.g. (620 Pa)
- > **Typical Applications:** Exhaust Applications, Water Treatment, Marine, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments

 CATALOG 1925

VAHF

FIBERGLASS TYPE TF VANEAXIAL FAN, BELT DRIVEN

- > 12 to 60 inches (305 mm to 1,525 mm) impeller diameters
- > Airflow to 81,200 CFM (138,000 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > **Typical Applications:** Exhaust Applications, Water Treatment, Marine, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments



 CATALOG 1925

TCWPF

FIBERGLASS PANEL FAN, DIRECT DRIVE

- > 12 to 48 inches (305 mm to 1,220 mm) impeller diameters
- > Airflow to 41,900 CFM (71,200 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > **Typical Applications:** Corrosive Environments, General HVAC, Marine, Wastewater Treatment, High Moisture Environments, Swimming Pools



 CATALOG 1925



 CATALOG 3000

WA

FIBERGLASS UPBLAST CENTRIFUGAL ROOF VENTILATOR, DIRECT DRIVE

- > 7 to 18 inches (180 mm to 460 mm) impeller diameters
- > Airflow to 3,030 CFM (5,100 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > **Typical Applications:** Chemical/Corrosive Environments, High Moisture Environments, General HVAC, Exhaust Applications, Marine, Swimming Pools, Wastewater Treatment



 CATALOG 3000

WAB

FIBERGLASS UPBLAST CENTRIFUGAL ROOF VENTILATOR, BELT DRIVEN

- > 14 to 40 inches (360 mm to 1,020 mm) impeller diameters
- > Airflow to 21,500 CFM (36,500 m³/hour)
- > Static pressure to 2 inch w.g. (500 Pa)
- > **Typical Applications:** Chemical/Corrosive Environments, High Moisture Environments, General HVAC, Exhaust Applications, Marine, Swimming Pools, Wastewater Treatment



 CATALOG 3000

HA

FIBERGLASS CENTRIFUGAL WALL VENTILATOR, DIRECT DRIVE

- > 7 to 18 inches (180 mm to 460 mm) impeller diameters
- > Airflow to 2,625 CFM (4,500 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > **Typical Applications:** Chemical/Corrosive Environments, High Moisture Environments, General HVAC, Exhaust Applications, Marine, Swimming Pools, Wastewater Treatment



 CATALOG 3000

HAB

FIBERGLASS CENTRIFUGAL WALL VENTILATOR, BELT DRIVEN

- > 12 to 30 inches (305 mm to 765 mm) impeller diameters
- > Airflow to 9,800 CFM (16,700 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > **Typical Applications:** Chemical/Corrosive Environments, High Moisture Environments, General HVAC, Exhaust Applications, Marine, Swimming Pools, Wastewater Treatment

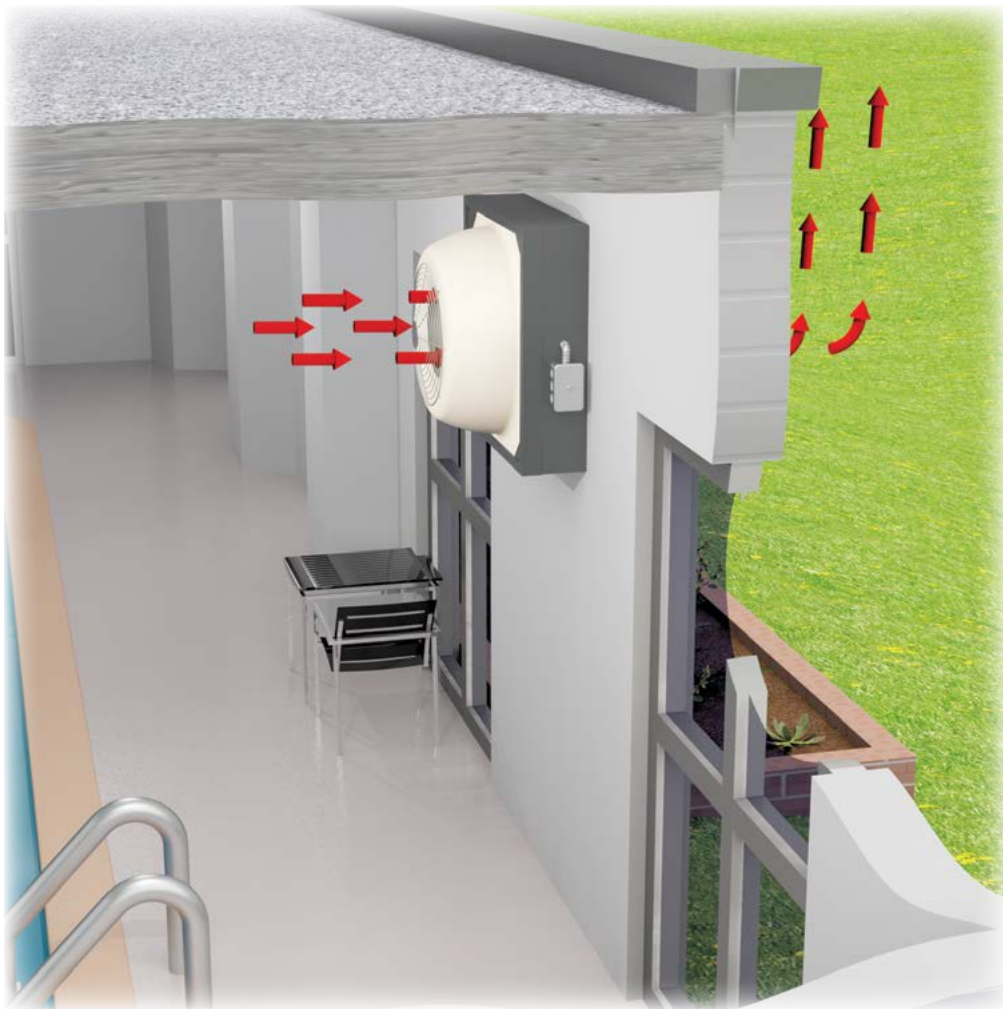
FIBERGLASS ROOF CURBS

PREFABRICATED ROOF CURBS

- > 12" high prefabricated roof curb
- > 3 1/2" cant, corner gussets
- > Treated 1 1/2" x 3 1/2" treated wood nailer
- > Damper tray
- > Options: 2" thick fiberglass insulation



 CATALOG 4910



Swimming Pool Exhaust Application



KITCHEN & RESTAURANT EXHAUST FANS



OVERVIEW



Model BCRUR
Grease Hood Exhaust

KITCHEN & RESTAURANT EXHAUST FANS

Kitchens and restaurants require specialized equipment for exhausting grease contaminated air. Ovens, stoves, grills and dishwashers produce moist, hot, smoky and grease-laden air that must be removed from the kitchen and discharged away from building surfaces. Twin City Fan & Blower offers a full line of UL 705 Supplement SC (formerly UL 762) listed kitchen exhaust fans and grease collection systems that are designed for kitchen and restaurant use.



Model BCRUR
Kitchen Exhaust

IMPELLER TYPES

Backward Inclined Centrifugal, Mixed Flow

COMMON ACCESSORIES

Grease Box and Drain Connections, Belt Guards, Motor Covers, Inlet/Outlet Screens and Guards, Inlet/Outlet Companion Flanges, Insulated Jackets, Vented Roof Curbs, Special Coatings, Disconnect Switches

CERTIFICATIONS

AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL 705 Supplement SC (formerly UL 762) Listed for Grease-Laden Air, Miami-Dade County Hurricane Rating Per NOA No. 21-0803.03

APPLICATIONS

Kitchen Exhaust, Dishwasher Exhaust



Model BCRUR
Kitchen Exhaust



BCRUR

CENTRIFUGAL KITCHEN ROOF EXHAUSTER, UPBLAST, BELT DRIVEN, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

- > 24.80 to 39.37 inches (630 mm to 1,000 mm) impeller diameters
- > Airflow to 20,700 CFM (35,200 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air



CATALOG 4105

BCRWR

CENTRIFUGAL WALL KITCHEN EXHAUSTER, BELT DRIVEN, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

- > 24.80 to 31.5 inches (630 mm to 800 mm) impeller diameters
- > Airflow to 15,100 CFM (25,700 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air

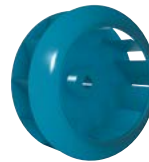


CATALOG 4105

BCVR

FLAT-BLADED BACKWARD INCLINED UTILITY SETS, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

- > 0.5 to 36.5 inches (270 mm to 930 mm) impeller diameters
- > Airflow to 29,100 CFM (49,400 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air



CATALOG 600

QCLBR

LOW PRESSURE RESTAURANT MIXED FLOW FANS, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

- > 12.25 to 73 inches (315 mm to 1,855 mm) impeller diameters
- > Airflow to 105,000 CFM (178,400 m³/hour)
- > Static pressure to 4.5 inches w.g. (1,120 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air



CATALOG 1070



CATALOG 1060



QSLR

QUIET MIXED FLOW RESTAURANT FANS,
UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

- > 18.25 to 89 inches (465 mm to 2,260 mm) impeller diameters
- > Airflow to 160,000 CFM (271,800 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air

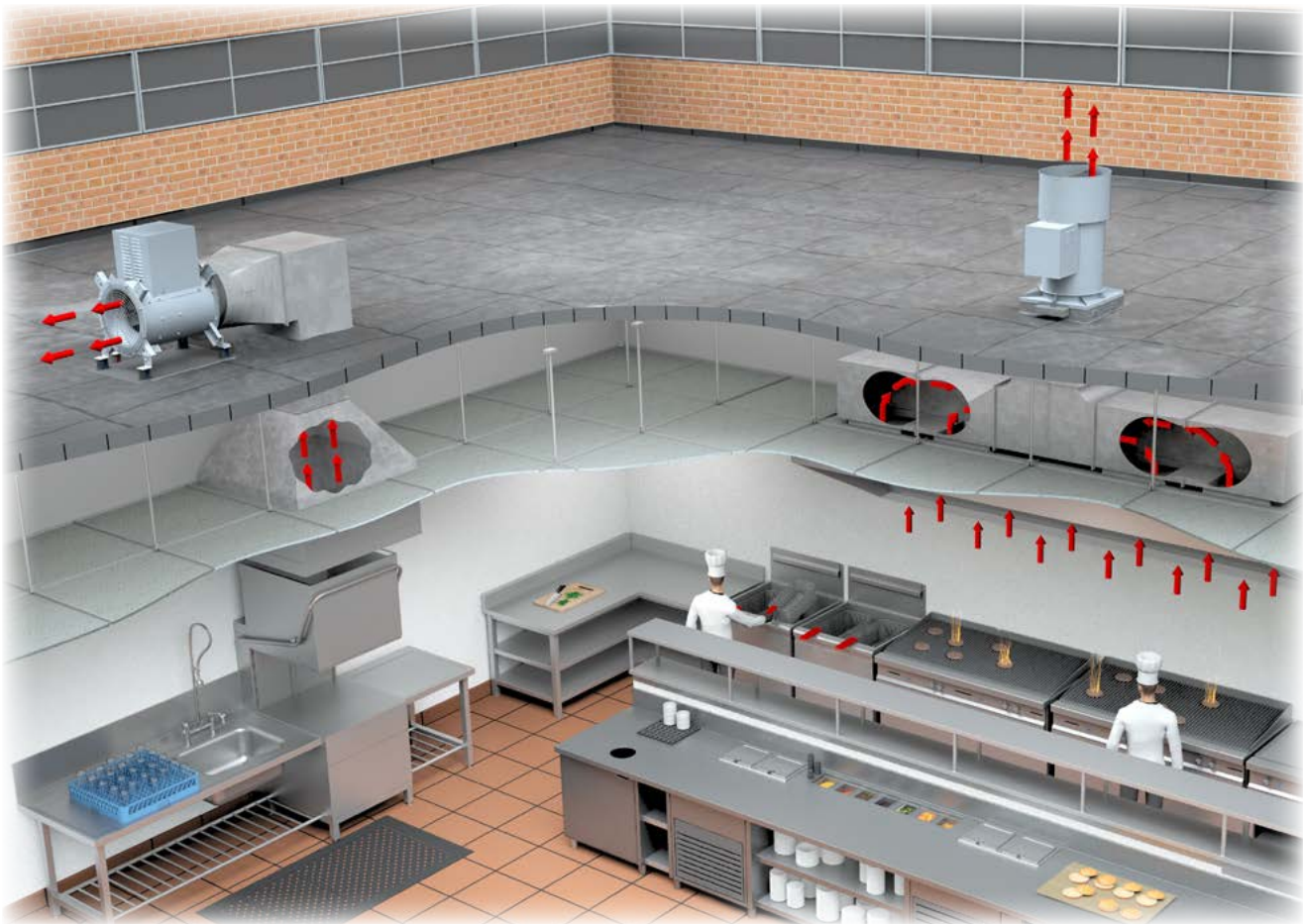


CATALOG 4910

SELF-FLASHING VENTED ROOF CURBS

FOR HIGH TEMPERATURE APPLICATIONS

- > Completely assembled unit, easier to install and less expensive than a field constructed curb
- > Constructed of 18-gauge galvanized steel with continuously-welded seams with wide base flashing for weathertight seal to roof
- > Meets NFPA-96 code requirements
- > Top ledge covered with $\frac{3}{16}$ " polystyrene gasket
- > Furnished with ventilation slots



Kitchen Exhaust Application



Hotel & Restaurant Exhaust Application

SMOKE & HEAT EXHAUST FANS



OVERVIEW



Model TUBSH
Smoke Control - University



Model BCRUSH
Smoke Control - Retail



Model TCVSSH
Elevator Shaft Exhaust



Model QLSH
Smoke Control - Amphitheater

SMOKE & HEAT EXHAUST FANS

Emergency smoke exhaust systems are designed to remove smoke and heat from buildings in the event of a fire. These systems play a crucial role in increasing occupant safety and allowing rescue personnel to safely enter burning buildings. Twin City Fan & Blower offers a full line of smoke and heat fans capable of withstanding a minimum temperature of 500°F for four hours or 1,000°F for 15 minutes. Our inline smoke and heat fans are also available in a vertical roof mount or horizontal discharge configuration featuring a stack cap with butterfly dampers and a fusible link designed to stay open in the event of a fire.

IMPELLER TYPES

Backward Inclined Centrifugal, Mixed Flow, Axial

COMMON ACCESSORIES

Belt Tube, Copper Extended Lube Lines, Access Doors, Belt Guards, Motor Covers, Inlet/Outlet Screens and Guards, Inlet/Outlet Companion Flanges, Insulated Jackets, Vented Roof Curbs, Special Coatings and Disconnect Switches

CERTIFICATIONS

AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL Listed for Smoke Control Systems

APPLICATIONS

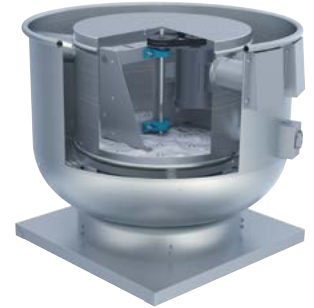
General Emergency Smoke Exhaust, Elevator Shaft Exhaust/Pressurization, Stairwell Pressurization



BCRUSH

SMOKE & HEAT REMOVAL CENTRIFUGAL FAN, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12.25 to 49.21 inches (315 mm to 1,250 mm) impeller diameters
- > Airflow to 29,100 CFM (49,400 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems

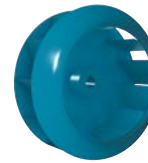


CATALOG 4105

BCVSH

SMOKE & HEAT FLAT-BLADED BACKWARD INCLINED UTILITY SETS,
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12.25 to 60 inches (315 mm to 1,525 mm) impeller diameters
- > Airflow to 78,660 CFM (133,600 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems



CATALOG 600

QCLBSH

SMOKE & HEAT LOW PRESSURE MIXED FLOW FAN,
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12.25 to 73 inches (315 mm to 1,855 mm) impeller diameters
- > Airflow to 105,000 CFM (178,400 m³/hour)
- > Static pressure to 4.5 inches w.g. (1,120 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems



CATALOG 1070

QSLSH

SMOKE & HEAT MIXED FLOW FAN,
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 18.25 to 89 inches (465 mm to 2,260 mm) impeller diameters
- > Airflow to 160,000 CFM (271,800 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems



CATALOG 1060



 CATALOG 4870



LUBSH

SMOKE & HEAT LOW PROFILE ROOF VENTILATOR, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
- > Airflow to 59,800 CFM (101,600 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL listed for Smoke Control Systems



 CATALOG 4850



TUBSH

SMOKE & HEAT REMOVAL ROOF VENTILATOR, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 24 to 60 inches (610 mm to 1,525 mm) impeller diameters
- > Airflow to 70,700 CFM (120,100 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems



 CATALOG 4830



TBSH

SMOKE & HEAT REMOVAL TUBEAXIAL FAN, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 24 to 60 inches (610 mm to 1,525 mm) impeller diameters
- > Airflow to 82,600 CFM (140,300 m³/hour)
- > Static pressure to 1.25 inches w.g. (310 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL listed for Smoke Control Systems



 CATALOG AX250



TCVSSH

SMOKE & HEAT VANEAXIAL FAN, STEEL IMPELLER
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
- > Airflow to 80,000 CFM (135,900 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > UL listed for Smoke Control Systems

TCTSSH

SMOKE & HEAT TUBEAXIAL FAN, STEEL IMPELLER
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
- > Airflow to 80,000 CFM (135,900 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)
- > UL listed for Smoke Control Systems



CATALOG AX250

SELF-FLASHING VENTED ROOF CURBS

FOR HIGH TEMPERATURE APPLICATIONS

- > Completely assembled unit, easier to install and less expensive than a field constructed curb
- > Constructed of 18-gauge galvanized steel with continuously-welded seams with wide base flashing for weathertight seal to roof
- > Meets NFPA-96 code requirements
- > Top ledge covered with ³/₁₆" polystyrene gasket
- > Furnished with ventilation slots



CATALOG 4910

Pages 8-11

CENTRIFUGAL FANS



BC-SW



BC-DW



BAE-SW



BAE-DW



BCS



BAF-SW



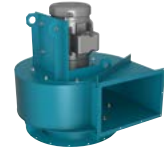
BAF-DW



BAFF



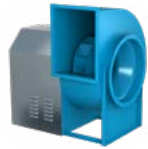
BCSF



TCBI

Pages 12-14

UTILITY SETS



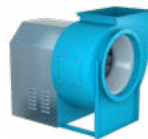
BCV / BCVR / BCVSH



DCV



FCV



BAV



DDF

Pages 16-19

INLINE & MIXED FLOW FANS



DSI / BSI



TSL



QCLB / QCLBR / QCLBSH



QSL / QSLR / QSLSH



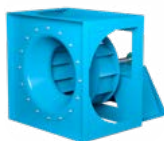
ILCF

Pages 20-23

PLENUM FANS



EPF / EPFN



EPQ / EPQN



EPLFN / EPLQN



MPLFN / MPLFS / MPLQN / MPLQS



MPQN / MPQS

Pages 24-25

PLUG FANS



BEPL



BCPL



BFPL

Page 31

CENTRIFUGAL FILTERED SUPPLY FANS



BCRFS



LPSF

Page 15

CEILING & CABINET VENTILATORS



T / TL



DBS / DBT

Pages 26-30

CENTRIFUGAL ROOF & WALL EXHAUSTERS



VC



VCU / VCUB



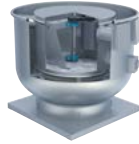
BCRU



BCRUR



BCRW / BCRWR



BCRUSH



BCRD



DCLP / BCLP



DCLH / BCLH

Pages 32-33

WALL MOUNTED FANS



WPD / WPB



TCWPZ / TCWPX



TCPE



TCWPF

Pages 57

MANCOOLERS



TCSM

Pages 34-39

VANEAXIAL FANS



TCVA



TCVX



TCVS / TCSSH



VAHF

Pages 34-39

TUBEAXIAL FANS



TD / TB
TBSH



TCTA



TCTS / TCTSSH



ATAD



TCBS



TAHF



TAMF

Pages 45

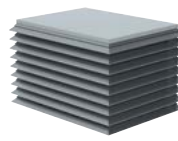
GRAVITY VENTILATORS



GRV



MGR / MGI

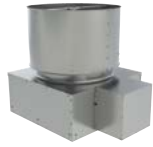


TEL / TIL

Pages 40-44
ROOF VENTILATORS



LUD / LUB



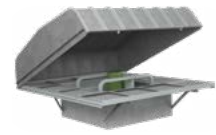
LUBMO / LUBSH



TUB / TUD / TUBSH



PRVF



LHD / LHDF



LHB / LHBF



THD / THDF



THB / THBF

Pages 46-49
RADIAL BLADED FANS



RBO / RBR / RBW
RBA / RBP



JRW



CIW



TPD / TPB



RBOF

Pages 50-51
RADIAL TIP & HIGH EFFICIENCY FANS



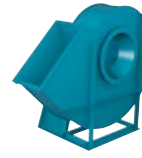
RTF



HRT



HIB



HAF

Pages 52-56
PRESSURE BLOWERS



TBNA / TBNS



TBA / TBR



MBO / MBR / MBW



HRO / HRS



BCN



PBW



TPD / TPB



CIW



HPF



TXP



TXR



TXS

Pages 58-61

LABORATORY & FUME HOOD EXHAUST FANS



TVIFE



QIFE



BAIFE / BCIFE



QFE / TFE

Pages 62-67

FIBERGLASS FANS



BCSF



BAFF



RBOF



HPF



ILCF



TAMF / TAHF
VAHF



PRVF



TCWPF



HA / HAB



WA / WAB

Pages 68-71

KITCHEN & RESTAURANT EXHAUST FANS



BCVR



BCRUR



BCRWR



QCLBR



QSLR

Pages 72-75

SMOKE & HEAT EXHAUST FANS



TBSH



TUBSH



QCLBSH



QSLSH



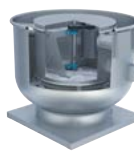
TCVSSH / TCTSSH



LUBSH



BCVSH



BCRUSH

INDUSTRIAL PROCESS AND COMMERCIAL VENTILATION SYSTEMS

CENTRIFUGAL FANS | UTILITY SETS | PLENUM & PLUG FANS | INLINE CENTRIFUGAL FANS
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CENTRIFUGAL ROOF & WALL EXHAUSTERS | CEILING VENTILATORS | GRAVITY VENTILATORS | DUCT BLOWERS
RADIAL BLADED FANS | RADIAL TIP FANS | HIGH EFFICIENCY INDUSTRIAL FANS | PRESSURE BLOWERS
LABORATORY EXHAUST FANS | FILTERED SUPPLY FANS | MANCOOLERS | FIBERGLASS FANS | CUSTOM FANS



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